

MANUFACTURERS SALES DEPARTMENT

REPRESENTATIVE'S CONFIDENTIAL PRICE LIST

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TERMS:

One per cent for cash ten days from
date of invoice, or thirty days net



THE SHERWIN-WILLIAMS CO.

FACTORIES: CLEVELAND, CHICAGO, NEWARK, SAN FRANCISCO (OAKLAND)
SALES OFFICES AND WAREHOUSES IN PRINCIPAL CITIES

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AGRICULTURAL IMPLEMENT PASTE PRIMERS AND PAINTS

In presenting our list of Agricultural Implement Paste Primers and Paints to the sales force, we have endeavored to so arrange the information on this line of material that it will be most accessible and easy to use.

We have passed through and left behind a period of experimenting with cheaper substitutes for raw materials employed in the manufacture of Implement Paints. We have now directed all our attention to the manufacture of these paints in such large quantities that the cost will be reduced by reason of the tonnage rather than by substitution of anything but the most approved ingredients.

In order to accomplish this as far as possible from the sales end, the Implement Paints herewith listed have been made to conform as nearly as possible with the standard set by our New Wagon Box Greens. Having put the standard of quality where it will unquestionably be satisfactory for all but very special requirements, we are endeavoring to give you every possible aid in the selling of these particular paints so that it will be unnecessary for the representatives to order special batches or to have samples of our competitors' material analyzed and matched.

The pigments are all selected to give the best possible results as to brilliancy of color, fastness to light, durability of paint film and working qualities during application, and only those vehicles are used which have proved both safe and permanent. Many cheaper paints are being turned out than these, but in every case if care is taken to make close comparative tests, our line of implement paints will prove the cheapest for the consumer.

Where reference is made to the number of pounds of paste to be reduced to the gallon of reducer, it means that the number of pounds referred to is to be mixed with a gallon of reducer to get required consistency for use.

We draw particular attention to the line of Wagon Box Greens, both brush and dip, and would say that the Dipping Wagon Box Greens, while they are especially made for dipping, are also excellent for ordinary brushing work, but the line of Brushing Wagon Box Greens has been added to meet extreme brushing conditions.

This line is especially recommended for all A. J. P. Green work, and should be sold in preference to anything else. They are of sufficient strength for any ordinary implement painting, either brush or dip, and are of good, bright shades, and of exceptional durability.

Neutral Greens are recommended for carriage shop work where a cheap line of colors is desired. They are for brushing only and should not be used for dipping purposes. The shades are good, bright colors, permanent in character and of exceptional durability.

Our line of Paratol Reds furnished in brushing and dipping quality are designed in the same high grade quality as our Wagon Box Greens, and are particularly commendable for their permanent bright red shade and their maximum durability.

Of the other colors such as Yellows, Blues, Grays, Maroons, etc., one paint of each type has been selected which is best adapted to the needs of the trade, and the assortment should cover all ordinary requirements.

AGRICULTURAL IMPLEMENT PAINT PRIMERS

316 PINK PRIMER (Brushing and Dipping) (20701)

Weight 19.15 pounds per gallon. Dries in from five to six hours. For dipping, should be reduced 18 to 20 pounds to the gallon of S-W Reducer Rx 0074, or benzine or naphtha. For brushing, reduction should be 20 to 24 pounds per gallon of reducer. Primarily for brush work, but also gives good results for dipping purposes in small tanks.

25s	12
Bbls. and 1/2-bbls.	10

317 PINK PRIMER (Brush) (21086)

Weight 16 1/4 pounds per gallon. Dries in from five to six hours. For dipping, should be reduced 14 to 16 pounds per gallon; particularly well adapted to dip work.

25s	11
Bbls. and 1/2-bbls.	09

320 PINK PRIMER (Brush and Dip) (21097)

This Primer is for both brushing and dipping. Weight 19 1/4 lbs. per gallon. For dipping should be reduced 14 to 16 pounds and for brushing 16 to 18 pounds to one gallon of reducer. Dries in 6 to 8 hours. Shade slightly darker than Rx 21086.

25s	12
Bbls. and 1/2-bbls.	10

318 RED PRIMER (Brush and Dip) (21090)

Weight 16 pounds per gallon. Dries in from six to eight hours. For dipping, reduce 18 to 20 pounds to gallon. For brushing, reduce 18 to 20 pounds to gallon. Possesses exceptional covering properties, good color and remains well in suspension.

25s	11
Bbls. and 1/2-bbls.	09

319 PARATONE PRIMER (21118)

Description—For use in connection with PARATONE RED. Weight 20 pounds per gallon. For brushing, reduce 22 to 24 pounds per gallon. For small tank dipping, reduce 18 to 18 pounds per gallon.

25s	11
Bbls. and 1/2-bbls.	09

LUCIFER RED PRIMER (21141)

A Red Lead Primer of Vermilion shade. For use on both wood and iron. Weight 19 1/4 pounds per gallon. For brushing should be reduced 20 to 24 pounds to the gallon of reducer and for dip work 18 to 20 pounds to the gallon of reducer. Dries in from eight to ten hours.

25s	11
Bbls. and 1/2-bbls.	09

309 GREEN PRIMER (Brush and Dip) (20714)

Weight 17 1/4 pounds per gallon. Dries in from five to six hours. For dipping, should be reduced 16 to 18 pounds per gallon. For brushing, 18 to 20 pounds per gallon. Gives brilliant green shade for both dip and brush work.

25s	11 1/2
Bbls. and 1/2-bbls.	09 1/2

AGRICULTURAL IMPLEMENT PAINT COLORS (Paste)

301 YELLOW PRIMER (Brush and Dip) (853)

Weight 18 1/4 pounds per gallon. Dries in from eight to ten hours. For dipping, should be reduced 14 to 16 pounds to gallon. For brushing, 16 to 18 pounds per gallon. Gives splendid results for both brush and dip work.

25s	13
Bbls. and 1/2-bbls.	11

499 IMPLEMENT MAROON (20297)

Weight 19 1/4 pounds per gallon. Dries in from six to eight hours. For dipping bare iron, should be reduced 12 to 14 pounds; for dipping bare wood, 10 to 12 pounds to gallon. For brushing bare iron, 16 to 18 pounds, and bare wood, 14 to 16 pounds. Produces an unusually attractive shade of maroon.

25s	13
Bbls. and 1/2-bbls.	11

536 PARATOL RED, LIGHT (Brush) (21039)

Weight 24 pounds per gallon. Covers solid at a reduction of from 10 to 24 pounds per gallon of naphtha for brushing. Dries in from six to eight hours.

25s	14
Bbls. and 1/2-bbls.	12

537 PARATOL RED, LIGHT (Dipping) (20939)

Weight 16 1/4 pounds per gallon. Covers solid at a reduction of from 14 to 16 pounds per gallon of naphtha for dipping. Dries in from six to eight hours.

25s	14
Bbls. and 1/2-bbls.	12

538 PARATOL RED, MEDIUM (Brush) (21041)

Weight 24 pounds per gallon. Covers solid at a reduction of from 20 to 24 pounds per gallon of naphtha for brushing. Dries in from six to eight hours.

25s	14
Bbls. and 1/2-bbls.	12

539 PARATOL RED, MEDIUM (Dipping) (21040)

Weight 16 1/4 pounds per gallon. Covers solid at a reduction of from 14 to 16 pounds per gallon of naphtha for dipping. Dries in from six to eight hours.

25s	13 1/2
Bbls. and 1/2-bbls.	11 1/2

539 PARATOL RED, QUICK DRYING (21029)

This color is somewhat similar to our regular Paratol Red, but ground in quicker drying liquids. Will dry in three to six hours. Should be reduced for dipping with S-W Reducer Rx 0974, or benzine or naphtha, 16 to 18 pounds to the gallon of reducer. For brushing, 20 to 24 pounds to the gallon of reducer. Shade same as Paratol Red Medium. Should be sold only where a quick drying Red is demanded.

25s	14
Bbls. and 1/2-bbls.	12

AGRICULTURAL IMPLEMENT PAINT COLORS (Paste)

523 NON-FADING GEAR VERMILION, LIGHT (20589)

Weight 20 pounds per gallon. Dries in from six to eight hours. For brushing, should be reduced 20 to 22 pounds per gallon. Produces light, brilliant shade. Absolutely permanent and should be introduced wherever possible.

25s	28
Bbls. and 1/4-bbls.	26

LUCIFER RED COLOR (21142)

A Red Lead Paste of Vermilion shade. For use on both wood and iron. Weight, 16.88 pounds per gallon. For brushing should be reduced 18 to 22 pounds to the gallon of reducer and for dip work 16 to 18 pounds to the gallon of reducer. Dries in from 10 to 12 hours.

25s	19
Bbls. and 1/4-bbls.	17

500 PARATONE RED, MEDIUM (21119)

Description—A splendid Red Paste Color designed to meet competition of Red Pastes sold at prices less than Paratol. Drying time, four to five hours. PARATONE RED is a Pure Dye, Red Lead Color Combination. Weight 17 pounds per gallon. For brush work, reduce from 22 to 25 pounds per gallon. Can be dipped. It is not recommended for dipping in large tanks. For dipping in small tanks, reduce 16 to 18 pounds per gallon.

25s	12
Bbls. and 1/4-bbls.	10

558 ALLKOTE RED (21058)

Description—ALLKOTE Red is designed as a Red Color Coat, but owing to the high content of lead which the formula carries, this product will also serve as a high grade primer. Designed for brushing or dipping. Weight, 17.60 pounds per gallon. Dries in from six to eight hours. For dipping, reduce 16 to 18 pounds per gallon. For brushing, reduce 18 to 20 pounds to a gallon. Possesses exceptional covering qualities. Of rich red color and remains well in suspension.

25s	12
Bbls. and 1/4-bbls.	10

517 TARTAR RED, LIGHT (Brush) (20561)

Weight 18.50 pounds per gallon. Dries in from six to eight hours. For brushing, should be reduced 17 to 19 pounds per gallon. Recommended particularly for brush work.

25s	16
Bbls. and 1/4-bbls.	17

518 TARTAR RED, LIGHT (Dip) (20610)

Weight 15.50 pounds per gallon. Dries in from six to eight hours. Should be reduced 12 pounds per gallon and used for dipping purposes primarily.

25s	19
Bbls. and 1/4-bbls.	17

519 TARTAR RED, MEDIUM (Brush) (20562)

Weight 18.20 pounds per gallon. Dries in from six to eight hours. Should be reduced 17 to 19 pounds per gallon for brush work. A popular shade among the trade.

25s	18
Bbls. and 1/4-bbls.	17

520 TARTAR RED, MEDIUM (Dip) (20664)

Weight 14.80 pounds per gallon. Dries in from six to eight hours. Should be reduced 12 pounds to gallon for dip work.

25s	18
Bbls. and 1/4-bbls.	17

AGRICULTURAL IMPLEMENT PAINT COLORS (Paste)

521 TARTAR RED, DEEP (Brush) (20563)

Weight 18.30 pounds per gallon. Dries in from six to eight hours. Should be reduced 17 to 19 pounds to gallon for brush work.

25s	19
Bbls. and 1/4-bbls.	17

522 TARTAR RED, DEEP (Dip) (20665)

Weight 14 pounds per gallon. Dries in from six to eight hours. Should be reduced 10 to 12 pounds to gallon for dip work.

25s	19
Bbls. and 1/4-bbls.	17

364 SPECIAL WAGON BOX GREEN, LL (Brush and Dip) (20926)

Weight 17 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For brushing bare iron, 14 to 16 pounds, and bare wood, 12 to 14 pounds. For dipping black iron, 14 pounds; bare wood, 12 pounds; primed iron, 12 pounds; primed wood, 10 to 12 pounds to gallon.

A warm toned, extra light green with a slight yellow tone, very clean in color.

25s	14
Bbls. and 1/4-bbls.	12

366 NEW WAGON BOX GREEN, L (Dip) (20573)

Weight 16 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping black iron, 12 pounds; bare wood, primed iron, and primed wood, 10 to 12 pounds to gallon.

25s	13
Bbls. and 1/4-bbls.	11

367 NEW WAGON BOX GREEN, M (Dip) (20573)

Weight 16 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping black iron, 12 pounds; bare wood, primed iron, and primed wood, 10 to 12 pounds to gallon.

25s	13
Bbls. and 1/4-bbls.	11

368 NEW WAGON BOX GREEN, D (Dip) (20574)

Weight 16 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping black iron, 12 pounds; bare wood, primed iron, and primed wood, 10 to 12 pounds to gallon.

25s	12
Bbls. and 1/4-bbls.	10

371 NEW WAGON BOX GREEN, L (Brushing) (194)

Weight 22 pounds per gallon. Dries in from six to eight hours. Should be reduced for brushing, 16 to 18 pounds to gallon.

25s	16
Bbls. and 1/4-bbls.	14

373 NEW WAGON BOX GREEN, M (Brushing) (195)

Weight 20 pounds per gallon. Dries in from six to eight hours. Should be reduced for brushing, 16 to 18 pounds to gallon.

25s	15
Bbls. and 1/4-bbls.	13

AGRICULTURAL IMPLEMENT PAINT COLORS (Paste)

379 NEW WAGON BOX GREEN, D (Brushing) (196)

Weight 21 1/4 pounds per gallon. Dries in from six to eight hours. Should be reduced for brushing, 16 to 18 pounds to gallon.

New Wagon Box Green, Dip and Brush, are same shade, making it possible to dip parts and brush others, resulting in uniformity in shade after final assembling.

25s	16
Bbls. and 1/4-bbls.	14

380 NEUTRAL GREEN, LIGHT (Brushing) (29472)

Weight 21 pounds per gallon. Dries over night. Reduce for brushing, about 16 to 18 pounds to the gallon of reducer.

25s	11 1/2
Bbls. and 1/4-bbls.	09 1/4

381 NEUTRAL GREEN, MEDIUM (Brushing) (29384)

Weight 20 pounds per gallon. Dries over night. Reduce for brushing, about 16 to 18 pounds to the gallon of reducer.

25s	11 1/4
Bbls. and 1/4-bbls.	09 1/4

382 NEUTRAL GREEN, DARK (Brushing) (29339)

Weight 19 1/4 pounds per gallon. Dries over night. Reduce for brushing, about 16 to 18 pounds to the gallon of reducer.

25s	10
Bbls. and 1/4-bbls.	08

322 CANARY YELLOW (3772)

Weight 22 1/4 pounds per gallon. Dries in from eight to ten hours. Should be reduced as follows: For dipping, 14 to 16 pounds to gallon; for brushing, 18 to 18 pounds.

25s	18
Bbls. and 1/4-bbls.	14

325 FARM WAGON GEAR YELLOW (29785)

Weight 21 1/4 pounds per gallon. Dries in from eight to ten hours. Should be reduced as follows: For dipping, 15 to 16 pounds, and brushing, 18 to 20 pounds per gallon. Used principally for gears, wheels and poles. Excellent results are obtained on wood, by dipping first coat, reduced at about 16 pounds to a gallon of naphtha, follow with semi-gloss coat made with approximately 14 pounds of color, one gallon of Pale Implement Finishing Varnish and one-half gallon of naphtha. For high-grade work, stripe and finish, or for medium grade work, merely stripe, using a gloss stripe. For cheaper work, which is only given one coat, recommend about 14 to 16 pounds of color to a gallon of Pale Implement Finishing Varnish, and from one-half to three-fourths gallon of naphtha.

NOTE—Paste should be reduced with naphtha before varnish is added, and only mixed as required for immediate use.

25s	18
Bbls. and 1/4-bbls.	13

AGRICULTURAL IMPLEMENT PAINT COLORS (Paste)

341 LIGHT CHROME YELLOW (3695)

Weight 22 1/4 pounds per gallon. Dries in from eight to ten hours. Should be reduced as follows: For dipping, 12 to 14 pounds; for brushing, 14 to 16 pounds per gallon.

25s	17 1/2
Bbls. and 1/2-bbls.	16 1/2

342 MEDIUM CHROME YELLOW (3670)

Weight 24 pounds per gallon. Dries in from eight to ten hours. Should be reduced as follows: For dipping, 14 to 16 pounds; for brushing, 16 to 18 pounds per gallon.

25s	18
Bbls. and 1/2-bbls.	17

346 ORANGE CHROME YELLOW (3749)

Weight 25 1/4 pounds per gallon. Dries in from eight to ten hours. For brushing, should be reduced 22 pounds to gallon.

25s	18
Bbls. and 1/2-bbls.	16

If when ordering Yellows, straight, dipping or brushing goods are desired, specify accordingly.

421 LIGHT BLUE (3682)

Weight 20 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping, 14 to 16 pounds; for brushing, 16 to 18 pounds per gallon.

25s	18
Bbls. and 1/2-bbls.	16

423 MEDIUM BLUE (3699)

Weight 20 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping, 14 to 16 pounds; for brushing, 16 to 18 pounds per gallon.

25s	17 1/2
Bbls. and 1/2-bbls.	16 1/2

424 DEEP BLUE (3758)

Weight 17.60 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping, 14 to 16 pounds; for brushing, 16 to 18 pounds per gallon.

25s	16 1/2
Bbls. and 1/2-bbls.	15 1/2

390 LIGHT GRAY (3734)

Weight 22 1/4 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping, 16 to 18 pounds; for brushing, 18 to 20 pounds per gallon.

25s	12 1/2
Bbls. and 1/2-bbls.	10 1/2

391 MEDIUM GRAY (3712)

Weight 22 1/4 pounds per gallon. Dries in from six to eight hours. Should be reduced as follows: For dipping, 14 to 16 pounds; for brushing, 16 to 18 pounds per gallon.

25s	12 1/2
Bbls. and 1/2-bbls.	10 1/2

AGRICULTURAL IMPLEMENT STRIPING COLORS (Paste—Quick Drying)

		5c	PC
552	Striping Vermillion (1052).....	48	
553	Striping Red (1053).....	80	
562	Striping Blue (1062).....	43	
573	Striping Chrome Yellow, M (1073).....	38	
590	Striping White (1090).....	35	
591	Striping Black (1091).....	30	

ALUMINUM PAINT

A lasting silver finish for use on radiators, ranges, water-bollers, gas, steam and water pipes, gas stoves, machinery, engines, etc. Also for outside use on gas engines, boats, metal work, cornices, cupolas, etc.

It stands extremes of heat and cold. Does not crack, peel or blister.

	1c	5c
(38)	3 85	3 75

ALUMINUM PAINT PRIMER (Liquid)

For use under Aluminum Paint to get most brilliant and durable finish.

	1c
Gray (8500)	2 50

ALUMINUM PAINT THINNER (Liquid)

For use in mixing Bronze and for thinning Aluminum Paint.

	1c
(076)	1 75

ASEPTIC WHITE ENAMELS AND UNDERCOATINGS

ENAMEL FINISHES FOR BEDSTEADS

BEDSTEAD DIPPING PRIMER No. 16 (6916)

Reduced 50 per cent with benzine. Do not use Reducer No. 74—0974, because we find benzine works better with this particular material than our special Reducer. This Primer will air-dry satisfactorily in 24 to 30 hours and bake in 3 hours at 160 degrees.

1g	2 88
5g	2 58
Bbls.	2 40

DIPPING BEDSTEAD ENAMEL No. 56 (17656)

Reduced 50 per cent with White Enamel Reducer No. 75—01075 for dip work and 33 1/4 per cent for spray work. This material can also be reduced with Reducer 74—0974 or Universal Thinner, but when these Reducers are used the Enamel will not take as much Reducer as when reduced with 01075, and will not have near as high a gloss as when 01075 is used. This material will take a higher heat than any of our other Enamels without turning yellow or showing any bad effects. It will also air-dry satisfactorily in 24 to 36 hours or can be baked at 170 to 180 degrees for 3 hours.

1g	3 78
5g	3 58
Bbls.	3 40

KITCHEN CABINET AND REFRIGERATOR FINISHES

TWO-COAT WORK

WHITE PRIMER No. 12 (17212)

For wood, galvanized or black iron.

Wood—For brushing, can be used full body, or if any reducer is necessary, it will take 12 1/4 per cent reduction with Reducer No. 74—0974 or Universal Thinner. For spraying, reduce 33 1/4 per cent with Reducer No. 74—0974.

Galvanized Iron or Black Iron—Use full body for brushing and for spraying reduce 25 per cent with Reducer No. 74—0974.

Will air-dry over night or bake at 150 to 160 degrees for 3 hours. This material should not be used in a dipping tank. If you find a demand for a Dipping Primer for this class of work, use Bedstead Dipping Primer No. 16—Rz 6916, using the same instructions as given for this material when used on bedsteads.

1g	2 70
5g	2 50
Bbls.	2 48

WHITE BAKING ENAMEL No. 68 (17868)

For spray work, reduce 33 1/4 per cent with White Enamel Reducer No. 75—01075; for dip work, reduce 50 per cent with White Baking Enamel Reducer No. 79—01075. Universal Thinner can also be used for reducing, but in using Universal Thinner the material will not take as much Reducer and the gloss will not be near as high as when the Enamel Reducer is used. This material will air-dry satisfactorily over night, but can also be baked at 150 degrees for 3 hours.

It should not be given more than 150 degrees of heat because it will turn yellow. This Enamel can also be used for a one-coat proposition. For this class of work we would suggest reducing it 33 1/4 per cent with White Enamel Reducer—01075 and air dry or bake as stated above.

1g	2 68
5g	2 58
Bbls.	2 40

ASEPTIC WHITE ENAMELS AND UNDERCOATINGS

ONE-COAT WORK

ONE-COAT WHITE ENAMEL No. 70 (17870)

This material will work satisfactorily on galvanized or black iron. Should not be used on wood. It can be reduced 25 per cent with Reducer No. 74-0974, or can also be reduced with benzine for brush or spray work, but we prefer to sell our Reducer No. 74 to obtain best results. When used this way it will dry over night or will bake at 150 degrees for 3 hours. We do not recommend this material for dipping purposes.

1c	2 75
5c	2 68
Bbia.	2 60

WIRE WHEEL FINISHES

WHITE PRIMER No. 20 (620)

For highest grade repair and new work.

Two coats of this Primer should be used. Reduce 10 to 15 per cent with Universal Thinner, turpentine or benzine for spraying. This material will satisfactorily air-dry over night or can be baked to a good hard tenacious coating in 3 hours at 150 degrees.

1c	3 00
5c	2 90
Bbia.	2 75

WHITE WIRE WHEEL ENAMEL No. 609 (17609)

This Enamel represents as high a grade of White Wire Wheel Finishing Enamel as, we believe, is necessary for this purpose, and is equal to any that are being offered for this class of work today.

Reduce 10 to 15 per cent with Universal Thinner, turpentine or benzine for spraying. This material will air-dry satisfactorily over night or bake at 150 degrees for 3 hours. We do not recommend any higher heat for this Enamel. On account of this material having to stand outside exposure a good percentage of oil is required in its manufacture, and for this reason when baked above 150 degrees it will turn yellow.

1c	2 75
5c	2 68
Bbia.	2 60

WHITE REED ENAMEL FINISHES

WHITE PRIMER No. 12

Will answer for a satisfactory Spraying Primer and Rx 6016 for a Dipping Primer.

1c	2 65
5c	2 58
Bbia.	2 40

WHITE ENAMEL No. 68

Is a satisfactory White Reed Finishing Enamel. Reduce 25 per cent for spraying and 33 1/3 per cent for dipping.

1c	2 65
5c	2 58
Bbia.	2 40

ASEPTIC WHITE ENAMELS AND UNDERCOATINGS

WHITE TOY FINISHES AND GENERAL SUNDRY ARTICLES

DULL WHITE TOY ENAMEL No. 49 (18049)

Reduce 25 per cent with Reducer No. 74—0974 for spraying. Will air-dry satisfactorily over night or bake at 165 degrees for 3 hours. This Enamel covers good one coat and gives a good Dull or Egg Shell Finish.

1s	2 75
5s	2 40
Bbls.	2 45

GLOSS WHITE TOY ENAMEL No. 48 (18048)

Reduce 25 per cent with Reducer No. 74—0974 for spray or dip work. This material will air-dry satisfactorily over night or bake at 160 degrees for 3 hours.

1s	2 35
5s	2 25
Bbls.	2 10

GLOSS WHITE TOY ENAMEL No. 605 (17605)

Reduce 25 per cent with Reducer No. 74—0974 for spray or dip work. This material will air-dry satisfactorily over night or bake at 160 degrees for 3 hours.

For two-coat work, use either White Primer No. 16 or White Primer No. 12—Rz 5916 for dipping, and Rz 17212 for brushing or spraying. For a good clean Enamel Finish over these Primers use one coat of White Baking Enamel No. 605—17605.

With reference to the particular whiteness of the above Enamels, it would be very hard for anyone to explain in detail how one compares with the other from a standpoint of whiteness. We suggest that each Manager arrange to have quart samples sent to his Division so that when the representatives come in they can examine each material and in this way find out for themselves just how one compares with the other.

1s	3 25
5s	3 15
Bbls.	3 00

REED PRIMERS AND FINISHING ENAMELS

For use on baby carriages, reed chairs, etc. Material is generally used for spraying and dipping. The amount of reduction is governed by the kind of article being finished. Usually for dipping and spraying the Primer will reduce 25 to 33 1/4 % with either Reducer No. 74, Rz 0974 or a turpentine substitute. The Enamels will take a reduction of 20 to 25 %. They air-dry over night.

	1s	5s	bbls.
Reed Primer, Gray (17228)	2 65	2 55	2 40
Reed Primer, Cream (17247)	2 65	2 55	2 40
Reed Primer, Old Ivory (17415)	2 60	2 40	2 25
Reed Primer, White (17595)	2 51	2 40	2 25
Reed Finishing, Gray (17227)	2 50	2 40	2 25
Reed Finishing, Cream (17229)	2 35	2 25	2 10
Reed Finishing, Old Ivory (17409)	2 51	2 40	2 25
Reed Finishing, White (17396)	2 75	2 65	2 50
Natural Reed Primer (18261)	2 35	2 25	2 10
Natural Reed Enamel (18262)	2 60	2 40	2 25
Dark Blue-Black Primer (18263)	2 35	2 25	2 10
Dark Blue-Black Enamel (18264)	2 65	2 55	2 40

FURNITURE ENAMELS AND UNDERCOATERS

These products are designed to meet the requirements of the wood finishing manufacturers of bedroom suites, sun room furniture, etc.

ENAMEL UNDERCOATERS

	1c	5c	bbis.
White Undercoater No. 30 (7230).....	2 80	2 40	2 26
White Undercoater No. 85 (17585).....	2 80	2 40	2 26
Ivory Undercoater No. 53 (17853).....	2 80	2 40	2 26
French Gray Undercoater No. 28 (17228).....	2 88	2 68	2 40

White Undercoater No. 30 is designed for brushing or spraying, while No. 85 may be used as a dipping undercoater at a reduction of about 33 1/4%.

These undercoaters may be brushed at package consistency or slightly reduced. For spraying reduce 20% with Special Reducer No. 1 (0974) or Universal Thinner (0261) or turpentine. All of these undercoaters dry over night for sanding and re-coating.

ENAMELS

	1c	5c	bbis.
White Enamel No. 5 (17605).....	3 25	3 15	3 00
White Enamel No. 10 (17610).....	2 88	2 78	2 60
White Enamel No. 56 (17656).....	4 00	3 90	3 78
White Enamel No. 68 (17668).....	2 80	2 40	2 26
Ivory Enamel No. 51 (18351).....	2 90	2 60	2 38
Ivory Enamel No. 52 (17852).....	2 75	2 68	2 60
Ivory Enamel No. 54 (17854).....	2 80	2 60	2 38
French Gray Enamel No. 27 (17227).....	2 80	2 40	2 26

No. 5 is a gloss white—quality between No. 56 and No. 68.

No. 10 is a dull finish white—dries hard over night to a rich dull-rubbed effect. An exceptionally fine enamel—very popular.

No. 56 is a gloss white—a very good quality enamel for the best grade of white furniture—dries in from 24 to 36 hours.

No. 68 is a gloss white enamel—dries hard over night—best for medium-price furniture and quick drying.

These enamels may be brushed at package consistency or slightly reduced. If gloss finish is desired, use White Enamel Reducer No. 75 (01075). If dull or egg-shell effect is preferred, use Universal Thinner or turpentine. For spraying, reduce from 10 to 15%.

No. 51 is an egg-shell ivory enamel—dries over night—it is the accepted standard for shade and is lighter than No. 52.

No. 52 is an egg-shell ivory enamel—dries over night, slightly pinker than No. 51 and is the former standard for shade.

No. 54 is a semi-gloss light ivory enamel, drying with slightly more gloss than the egg-shell and dries over night.

No. 27 is a French gray enamel, and dries over night to an egg-shell finish.

These enamels may be brushed at package consistency or slightly reduced with Universal Thinner or turpentine. For spraying, reduce from 10 to 15%.

SHERWIN-WILLIAMS PRODUCTS**BLACK JAPANS (Air-Drying)****Black Air-Drying Japan No. 5 (0700)**

Suitable for rough castings, boilers, sheet-iron work, etc.

For brush work, reduce one part Naphtha to four parts Japan and for dipping one part Naphtha to two parts Japan. Dries dust free in 15 to 20 minutes, and hard in 4 to 5 hours.

1's.....	66
5's.....	75
Barrels.....	65
Drums.....	60

Climax Black Air-Drying Japan (02605)

Similar to No. 5 Air-Drying Japan. Sets up about the same but is a trifle slower drying. It is practically a semi-gloss, very tenacious and elastic.

1's.....	65
5's.....	75
Barrels.....	65
Drums.....	60

PIGMENTED FIRST COAT JAPANS**Heavy Black Baking First Coater No. 14 (22414)**

This material is a heavy bodied First Coater, formulated for use on typewriters, adding machines, general office equipment and other high-grade work where a heavy coat and maximum filling qualities are required.

The Baume of the material as it is delivered in the package is 13 degrees and should be sprayed without reduction by preheating the material to 180 degrees. By "pre-heating" we mean that the material as it comes in the package should be placed in suitable containers and held in heating cabinets until ready for use in the gun. The heat of the material in the gun cup is in most plants, maintained by an electric heating element in a stand on which the gun rests while not in use.

As three coats of this material may be used to build up a good surface, it usually is wet-sanded between each coat. Bake 2 to 3 hours at 375 degrees Fahrenheit.

1's.....	65
5's.....	66
Barrels.....	45
Drums.....	40

Black Baking First Coater No. 2 (22402)

In Rx 22402 we have a very high grade Fender First Coater, intended primarily for use with Rx 02604. Baume of the material as it comes in the package is 27 degrees. Material is ready for use but may be reduced 5 per cent with Rx 0974 or Petroleum Spirits to 28 degrees Baume. This is optional and depends upon shop conditions and practices. Bake 30 minutes at 425 degrees Fahrenheit.

1's.....	66
5's.....	45
Barrels.....	35
Drums.....	30

First Coat Rubber Finish No. 84 (18184)

A very popular number, used extensively beneath finishing Blacks of medium grade. The original consistency of material as it comes in the package is 23 degree Baume and for dipping it should be reduced 33 1/3 per cent with Rx 0974 or Naphtha, giving it a Baume reading of 30 degrees on a light liquid hydrometer.

Baking time and temperature, 30 minutes at 425 degrees Fahrenheit.

1's.....	60
5's.....	40
Barrels.....	30
Drums.....	25

Black Baking First Coater No. 25 (18825)

A new development, which is favored as a first coater by manufacturers of medium grade fenders, particularly when used under the new medium grade fender Finishing Japan 02606. This material is furnished in an original consistency of 25 degrees Baume and can be used as furnished or reduced up to 15 per cent with Rx 0974 or Petroleum Spirits to a Baume of 31 degrees.

Baking time and temperature, 30 minutes at 425 degrees Fahrenheit.

1's.....	30
5's.....	20
Barrels.....	10
Drums.....	05

HIGH HEAT BLACK FINISHING JAPANS

High Grade Fender Japan No. 604 (02604)

Highest grade, long flowing Baking Japan for use on automobile fenders and other high grade work where a long flow is required. For dipping it should be reduced 33 1/4 per cent with Rx 0974 or Petroleum Spirits, giving it a Baume reading of 31 to 32 degrees on a light liquid hydrometer. The original consistency of the material as it is contained in the package is 26 degrees.

Baking time and temperature, 30 minutes at 425 degrees Fahrenheit.

For three-coat work, the first coat of Rx 02604 after being baked should be rubbed to a surface with pumice stone and water, after which one more coat of Rx 02604, reduced in the same manner, is applied.

When recommending these baking temperatures we specify the temperature and length of time at which the heat shall be held and do not take into account the estimated time required to reach the specified baking temperature.

In cases where it is impossible to get 425 degrees of heat and only 375 degrees can be obtained, the length of the bake should be increased to 1 hour after the oven has reached the temperature of 375 degrees. We strongly urge baking at the higher temperature, viz., 425 degrees Fahrenheit, for the reason it has been found that baking material at the maximum heat produces a superior finish.

1's.....	1	36
5's.....	1	25
Barrels.....	1	16
Drums.....	1	10

Black Baking Japan No. 34 (02634)

Highest quality finishing Japan designed for use where the work is not subjected to a long flow. It will be found most satisfactory for use on automobile tool boxes, high grade hardware specialties, registers, locks and the finest grade materials, with the exception of the following: Automobile fenders, sewing machines, adding machines, typewriters, etc. The original consistency of material as it is contained in the package is 24 1/4 to 25 degrees Baume. It should be reduced 33 1/4 per cent with Rx 0974 or Naphtha for dipping purposes, giving it a Baume reading of 30 to 31 degrees on a light liquid hydrometer.

Baking time and temperature, 30 minutes held at 425 degrees Fahrenheit. The same special consideration should be given the baking of this material as 02604.

1's.....	1	20
5's.....	1	10
Barrels.....	1	00
Drums.....	1	96

Black Baking Japan No. 35 (02635)

A medium price Japan to fulfill medium grade requirements. Can be recommended for use on the same class of materials for which 02634 was designed but it should be understood that the results will not be the same, consistent with the difference in price. The Baume of the material as delivered and contained in the package is 24 to 25 degrees. It should be reduced 33 1/4 per cent for dipping with Rx 0974 or Petroleum Spirits, giving it a Baume reading of 31 to 32 degrees.

Baking time and temperature, 30 minutes held at 400 degrees or 2 hours held at 350 degrees Fahrenheit.

1's.....	1	00
5's.....	1	80
Barrels.....	1	80
Drums.....	1	76

Black Baking Japan No. 75 (02675)

This material was developed to meet the demand for a high grade typewriter, adding machine and general office equipment Finishing Japan. The original consistency of material in the package is 23 degrees Baume. Spray without reduction by pre-heating the material to 180 degrees Fahrenheit. The reasons for pre-heating are accurately covered in text on Rx 22414 (First Coater). Pre-heating material makes it possible to apply a heavy coat, thereby furnishing the highest gloss and minimizing the possibility of sags in the finish.

Bake 3 to 4 hours at 360 degrees Fahrenheit.

1's.....	1	26
5's.....	1	16
Barrels.....	1	08
Drums.....	1	00

HIGH HEAT BLACK FINISHING JAPANS (Continued)

Black Baking Japan No. 82 (02682)

Same quality as 02673 only shorter flow, allowing application of heavier coat. Consistency of material in package 24 degrees Baume, and should be sprayed with out reduction by pre-heating to 180 degrees Fahrenheit.

Bake 3 to 4 hours at 360 degrees Fahrenheit.

1's.....	1 25
5's.....	1 15
Barrels.....	1 05
Drums.....	1 00

Black Baking Japan No. 56 (01856)

Medium priced furniture Japan, quality to be between that of 02634 and 02635. Consistency of material in package 25 degrees Baume. Reduce 33 1/4 per cent with Rx 0974 or Petroleum Spirits to 31 degrees Baume.

Bake 30 minutes at 400 degrees Fahrenheit.

1's.....	1 20
5's.....	1 10
Barrels.....	1 00
Drums.....	96

Black Baking Japan No. 90 (02290)

Same quality as 01856, only heavier in body. This material finds a ready sale to manufacturers of office furniture and other articles using tubular steel or angle steel and requiring the maximum degree of depth and gloss. Consistency of material in the package is 25 degrees Baume. Reduce 50 per cent with Rx 0974 or Petroleum Spirits to 33 degrees Baume.

Bake 30 minutes at 400 degrees Fahrenheit.

1's.....	1 20
5's.....	1 10
Barrels.....	1 00
Drums.....	96

Black Baking Japan No. 66 (02666)

Medium grade fender Japan. May be used as furnished or can be reduced 15 per cent with Rx 0974, to a Baume reading of 32 degrees.

Bake 30 minutes at 425 degrees Fahrenheit.

1's.....	1 00
5's.....	96
Barrels.....	80
Drums.....	76

Black Baking Japan No. 58 (02658)

Medium hardware Japan, quality between 02635 and 0787. Consistency of material in package 27 degrees Baume. Reduce 50 per cent with Rx 0974 or Petroleum Spirits to 35 degrees Baume.

Bake 30 minutes at 400 degrees Fahrenheit.

1's.....	96
5's.....	85
Barrels.....	76
Drums.....	70

Black Baking Japan No. 60 (0760)

A dipping Japan designed for closed springs. Original consistency of material in package is 29 degrees Baume. Reduce 200 per cent with VMP Naphtha to 48 degrees Baume.

Bake 30 minutes at 450 to 500 degrees Fahrenheit.

This material is designed for the application of a very thin coat, which permits the baking or the fusing of material into the metal, resulting from the high heat specified. This treatment produces a very hard and tenacious finish.

1's.....	85
5's.....	76
Barrels.....	65
Drums.....	60

HIGH HEAT BLACK FINISHING JAPANS (Continued)

Black Baking Japan No. 87 (0787)

Designed for use on open springs, stove parts, castings, locks and small hardware. It should not be recommended for use on large flat surfaces. This Japan will stand a reduction of 50 to 100 per cent or more for dipping, depending upon the type of article to be finished.

Bake 30 minutes at 425 degrees Fahrenheit.

1's.....	75
5's.....	65
Barrels.....	55
Drums.....	50

Black Baking Japan No. 71 (02671)

This product is primarily an Air-Drying Japan where price is the main consideration. For brushing, reduce 20 per cent and for dipping reduce 33 1/4 per cent with VMP Naphtha. Sets up dust free in 2 hours and dries hard in 24 hours to an elastic finish. It is being used extensively as a cheap Black Baking Japan for open coil springs, castings, etc. Reduction for open coil spring work depends largely upon shop practices. The maximum reduction, however, is 150 per cent with VMP Naphtha to 45 degrees Baume.

Bake 30 minutes at 400 to 425 degrees Fahrenheit.

1's.....	60
5's.....	50
Non-returnable Drums (single drum lots).....	40
Non-returnable Drums (10 or more drums).....	35

LOW HEAT BLACK BAKING JAPAN

Low Heat Black Baking Japan No. 55 (02655)

This Japan is recommended where there is a demand for a Low Heat Black Baking Japan that will bake at a minimum temperature of 300 degrees Fahrenheit. Consistency of material in package as delivered is 24 degrees Baume. Recommended for use at 33 1/4 per cent reduction with Rx 0974 or Petroleum Spirits, bringing the material to a Baume of 30 degrees.

Bake 3 hours at 300 degrees Fahrenheit.

1's.....	30
5's.....	20
Barrels.....	10
Drums.....	05

BLACK BAKING JAPAN REDUCERS

Reducer No. 74 (0974)

1's.....	
5's.....	
Barrels.....	
Drums.....	

Universal Thinner (0261)

1's.....	
5's.....	
Barrels.....	
Drums.....	

For prices and technical information on 0974 and 0261 refer to page 225 Varnish Sales Department price list.

TUMBLING AND CENTRIFUGAL JAPANS

It is felt advisable not to list materials developed for use in these systems, and Representatives will refer inquiries to local MSD Managers who will enter Special Requirements Reports, mailing same to the General Manufacturers Sales Department at Cleveland.

OVENS

This is one of the most important subjects that should be discussed when a representative calls on a manufacturer using this class of material for these reasons: Invariably ovens are constructed promiscuously and in a good many cases the heat, ventilation and circulation of fresh air is a secondary consideration. Unless a thermometer is used to regulate the heat, correct ventilation in the oven and the proper circulation of air, the best results cannot be obtained. If every one of our Managers as well as representatives would thoroughly consider this important factor in obtaining the best results with Black Baking Japans, we are satisfied that fifty per cent of the complaints registered against Black Baking Japans would be eliminated.

Cold ovens must also be taken into consideration in obtaining the required heat. The first bake in the morning when commencing work will always take a trifle longer than the second, third, or later bakes during the day or night work. This is due to the oven being cold from standing over night, and it will take from 30 to 45 minutes to warm the oven up, so don't expect to obtain your heat for the first bake as readily as you do when the oven is warm.

The subject of heat is one of the most important factors to consider in the finish of Black Baking Japans. A good many times you find that the thermometers being used in determining the heat in the oven do not show the correct heat that is being obtained. This is usually due to the incorrect placing of the thermometer or improper circulation of air to obtain correct heat. In this case it will be impossible for us or anyone else to satisfactorily decide on what particular heat would answer satisfactorily in this oven. The only thing to do would be to get a new thermometer and hang it in the oven during the process of baking and find out exactly what the temperature is.

With further reference to the oven it should be so placed that the least amount of labor and time is used in getting the work from the drain boards to them. Ovens are usually heated by gas, except where live steam can be had and a low bake required. The most improved and up-to-date ovens are electric. One of the most important features of a good oven is proper ventilation to carry off the fumes and gases so they will not settle back on the work and you do not run chances of explosions. It is also important to have a thermometer, as it is not possible to determine the heat by placing the hand on the oven door, by the flame of the gas, or any other means except the thermometer. The ordinary thermometer will not do; it must be one that extends six or eight inches into the oven to get the correct heat.

The real systematic and energetic Japanner will use a hydrometer in testing his Japan to keep it at the correct Baume all the time. This is no hard task and only takes a very few minutes at night or in the morning; preferably at night. The advantage of doing it at night is that the Japan has all night to settle out and will be in excellent condition for dipping the next morning. The evaporation over night will not change the hydrometer reading sufficiently to cause any trouble if the Japan is covered with a satisfactory tight cover. The hydrometer used for this is referred to as a Light Liquid Hydrometer.

To keep down dust in the oven, wipe out the corners and edges with a neutral oil or take some of the same Japan that you are using and apply it on the corners and places where dust may collect and during the first bake you make you will find the Japan bakes the dust and dirt right into the oven and you will eliminate considerable of this trouble.

TANKS

With reference to the tank used for the dipping of Fender Japans, we want to call particular attention to the drawing sent to all Managers describing a proper tank for the dipping of this class of material. It is absolutely necessary that the tank be of the required size to satisfactorily handle this class of work without holding the fender in two or three different positions to obtain a satisfactory dip. The fender should be placed in the tank and drawn out with one swoop, taking out the nose end of the fender first and bringing out the tail end or skirt of the fender last. In this way you obtain a complete flow of the Japan and get a drain at the proper angle and will not have any trouble with sags. In this tank you should have a screen about six or eight inches from the bottom so that in dipping your fenders you will not strike bottom and agitate any settlements that may have gone to the bottom of the tank.

Also one of the most important features in this tank is that it should have a sub-straining tank at one end of the main tank that extends down to within one foot from the bottom of the main tank, and in this sub-straining tank you should have a copper mesh that will take up all small particles when fresh Japan is added to the main tank and also take up these particles from the Japan that has run from the drain board into a tub or bucket and then poured back into this sub-straining tank.

Another good point about having this sub-tank extend down to within one foot from the bottom of the main tank is that in adding Japan or pouring back the Japan that has run from the drain board, you don't disturb the top of the Japan and cause a lot of bubbles in the Japan so that it cannot be used for two or three hours after it has had the fresh Japan added. You can readily see that the Japan must circulate down into the bottom of the sub-tank and in that way enter into the bottom of the main tank, causing the least amount of disturbance. This tank is especially adapted for use in automobile factories. For spring Japan work it is not necessary to have this sub-tank, but it is necessary to have the screen in the bottom of the tank.

Whenever Japan shows any tendency of being dirty, the tank should be cleaned out and the Japan strained. This will depend upon how clean the room in which the work is done is kept and also how clean the material is before being allowed to be dipped in the Japan.

Exceeding care should be exercised in seeing that the material to be dipped is clean and free from grease or acids which might be left on from the cleaning process. If you are careless in this respect, the Japan and finish is sure to suffer.

The hooks used to hang the work up with should not be allowed to become heavy with Japan as this causes dirty work. The Japan should be burnt off as soon as they show this condition. It is very important that hooks be made to fit the work properly and also that the work hangs correctly to get the best drain.

The following method is used in quite a few Japan rooms as a cleaning process. The articles to be japanned are placed in an oven and baked at a heat ranging from 500 to 550 degrees for 3 to 4 hours. Any grease or smut left on the articles to be japanned is naturally oxidized by this high heat and the articles come out dry and clean. This, however, does not take off all the small particles of dust that may be found in the seams and it is advisable to take a brush, after the articles have been taken out of the oven, and clean the seams out so you will be sure that there is no dust floating over your work when it is dipped.

OXYDON FINISHES (Baking)

Formerly Rubber Finishes

Oxydon Finishes are made by grinding Black, such as Carbon Black, in a good Oil Varnish to a very fine consistency. This paste is added to different grades of Black Baking Japan; the reason for this is to get covering and that much sought-for Satin, Rubber, Egg Shell or Dull Finish. The desired effect as to gloss is governed by the amount of this black paste added to the Black Baking Japan. For instance— if a Flat or Egg Shell Finish is desired, more of this Black paste would be added than if a Gloss Rubber Finish was desired.

The quality of Oxydon Finishes is governed by the quality of Black Baking Japan used in mixing this black paste with it. To obtain the highest grade, elastic and most durable Oxydon Finish, it is necessary to use a high quality long oil Black Baking Japan. On the other hand, the cheaper the Black Baking Japan, the more brittle your Oxydon Finish will be.

The amount of Oxydon Finish business possible can only be realized by the following list of articles now being finished this way.

Automobile accessories, lamps, horns, all metal surfaces, hardware, specialties, telephones, meter boxes, toys, novelties, camera parts, gas and gasoline stoves, lanterns, etc.

The baking time of all these materials referred to of from 2 to 2 1/2 hours at 300 degrees means that the material should be baked for this length of time at the required heat: not that the material should be placed in a cold or warm oven and the baking time taken from then on. The heat should be allowed to advance gradually until it gets up to the required degree of 300 and then allowed to remain at this heat from 2 to 2 1/2 hours to obtain best results. Or if necessary, can be baked at a lower heat by increasing the time or a higher heat by decreasing the time.

BLACK BAKING JAPANS

TANKS

With reference to the tank used for the dipping of Fender Japans, we want to call particular attention to the drawing sent to all Managers describing a proper tank for the dipping of this class of material. It is absolutely necessary that the tank be of the required size to satisfactorily handle this class of work without holding the fender in two or three different positions to obtain a satisfactory dip. The fender should be placed in the tank and drawn out with one swoop, taking out the nose end of the fender first and bringing out the tail end or skirt of the fender last. In this way you obtain a complete flow of the Japan and get a drain at the proper angle and will not have any trouble with sags. In this tank you should have a screen about 15 or 18 inches from the bottom so that in dipping your fenders you will not strike bottom and agitate any settlements that may have gone to the bottom of the tank.

Also one of the most important features in this tank is that it should have a sub-straining tank at one end of the main tank that extends down to within one foot from the bottom of the main tank, and in this sub-straining tank you should have a copper mesh that will take up all small particles when fresh Japan is added to the main tank and also take up these particles from the Japan that has run from the drain board into a tub or bucket and then poured back into this sub-straining tank.

Another good point about having this sub-tank extend down to within one foot from the bottom of the main tank is that in adding Japan or pouring back the Japan that has run from the drain board, you don't disturb the top of the Japan and cause a lot of bubbles in the Japan so that it cannot be used for two or three hours after it has had the fresh Japan added. You can readily see that the Japan must circulate down into the bottom of the sub-tank and in that way enter into the bottom of the main tank, causing the least amount of disturbance. This tank is especially adapted for use in automobile factories. For spring Japan work it is not necessary to have this sub-tank, but it is necessary to have the screen in the bottom of the tank.

Whenever Japan shows any tendency of being dirty, the tank should be cleaned out and the Japan strained. This will depend upon how clean the room in which the work is done is kept and also how clean the material is before being allowed to be dipped in the Japan.

Exceeding care should be exercised in seeing that the material to be dipped is clean and free from grease or acids which might be left on from the cleaning process. If you are careless in this respect, the Japan and finish is sure to suffer.

The hooks used to hang the work up with should not be allowed to become heavy with Japan as this causes dirty work. The Japan should be burnt off as soon as they show this condition. It is very important that hooks be made to fit the work properly and also that the work hangs correctly to get the best drain.

The following method is used in quite a few Japan rooms as a cleaning process. The articles to be japanned are placed in an oven and baked at a heat ranging from 500 to 550 degrees for 3 to 4 hours. Any grease or smut left on the articles to be japanned is naturally oxidized by this high heat and the articles come out dry and clean. This, however, does not take off all the small particles of dust that may be found in the seams and it is advisable to take a brush, after the articles have been taken out of the oven, and clean the seams out so you will be sure that there is no dust floating over your work when it is dipped.

OXYDON FINISHES (Baking)

Formerly Rubber Finishes

Oxydon Finishes are made by grinding Black, such as Carbon Black, in a good Oil Varnish to a very fine consistency. This paste is added to different grades of Black Baking Japans; the reason for this is to get covering and that much sought-for Satin, Rubber, Egg Shell or Dull Finish. The desired effect as to gloss is governed by the amount of this black paste added to the Black Baking Japan. For instance—if a Flat or Egg Shell Finish is desired, more of this Black paste would be added than if a Gloss Rubber Finish was desired.

The quality of Oxydon Finishes is governed by the quality of Black Baking Japan used in mixing this black paste with it. To obtain the highest grade, elastic and most durable Oxydon Finish, it is necessary to use a high quality long oil Black Baking Japan. On the other hand, the cheaper the Black Baking Japan, the more brittle your Oxydon Finish will be.

The amount of Oxydon Finish business possible can only be realized by the following list of articles now being finished this way.

Automobile accessories, lamps, horns, all metal surfaces, hardware, specialties, telephones, meter boxes, toys, novelties, camera parts, gas and gasoline stoves, lanterns, etc.

The baking time of all these materials referred to of from 2 to 2 1/4 hours at 300 degrees means that the material should be baked for this length of time at the required heat; not that the material should be placed in a cold or warm oven and the baking time taken from then on. The heat should be allowed to advance gradually until it gets up to the required degree of 300 and then allowed to remain at this heat from 2 to 2 1/4 hours to obtain best results. Or if necessary, can be baked at a lower heat by increasing the time or a higher heat by decreasing the time.

OXYDON FINISHES (Baking)

OXYDON FINISH No. 80 (6980)

The highest quality of Oxydon Finish it is possible to make. It is a dense black and reduces 12 1/2 per cent for spraying, and 25 per cent for dip work, with benzine or 0974. Will bake from 2 to 2 1/2 hours at 300 degrees. Dries with an egg shell finish.

1s	2 15
5s	2 05
Bbls.....	1 90

OXYDON FINISH No. 82 (6982)

A high grade Oxydon Finish. When reduced 66 2/3 per cent it dries about the same as 6980 when reduced 25 per cent. To be sold where the customer desires material to stand considerable reduction or to take considerable reducer. This material will reduce 66 2/3 per cent for spraying, and 75 per cent for dip work, with benzine or 0974. Will bake from 2 to 2 1/2 hours at 300 degrees.

On account of this material being of such a heavy consistency, the desired gloss obtained is governed by the amount of reducer. For instance, if a high gloss is required, the material should not be reduced any more than 40 to 50 per cent if less gloss is desired, the material can be reduced 66 2/3 per cent, and for dip work the material, by reducing 75 per cent, will have still less gloss. In taking these matters up with the trade, it would be wise, if they are getting too much gloss, to use more reducer.

1s	1 85
5s	1 75
Bbls.....	1 60

OXYDON FINISH No. 36 (6436)

Highest quality ready-to-use Oxydon Finish. Should not be reduced for spraying or dip work. Will bake from 2 to 2 1/2 hours at 300 degrees. Dries with high gloss.

1s	1 85
5s	1 75
Bbls.....	1 60

OXYDON FINISH No. 38 (6438)

A good grade of Oxydon Finish ready for use. No reducer should be used. The only difference in this material and 6436 is that 6438 dries with a trifle less gloss. Can be used for spraying or dip work and will bake from 2 to 2 1/2 hours at 300 degrees.

1s	2 00
5s	1 90
Bbls.....	1 75

OXYDON FINISH No. 74 (17874)

A high grade Steel Blue Oxydon Finish, made to represent finish of blue steel used in the manufacture of guns and high grade instruments. This material is furnished ready for use and should not be reduced for dipping, and then a very small amount of benzine or 0974 can be added. Will bake from 2 to 2 1/2 hours at 300 degrees.

1s	2 50
5s	2 40
Bbls.....	2 25

OXYDON FINISH No. 67 (14767)

A good Egg-Shell Oxydon Finish. Will reduce 75 to 100 per cent for spraying or dip work with benzine or 0974 and will bake from 2 to 2 1/2 hours at 300 degrees.

1s	1 85
5s	1 75
Bbls.....	1 60

OXYDON FINISH No. 92 (17392)

A fair grade Oxydon Finish. Can be used on stoves, oil cans, etc. Will reduce 66 2/3 per cent for spraying, and from 75 to 100 per cent for dip work, with benzine or 0974. Will bake from 2 to 2 1/2 hours at 300 degrees. Dries with a semi-gloss.

1s	1 45
5s	1 35
Bbls.....	1 20

Effective April 20, 1927

SHERWIN-WILLIAMS PRODUCTS

OXYDON FINISHES (Baking)

OXYDON FINISH No. 32 (18032)

This is a good grade Oxydon Finish, and can be used on stove, oil cans, etc. The difference between this material and 17392 is that 18032 does not carry as much gloss as 17392.

1s.....	1 85
5s.....	1 55
Bbls.....	1 40

OXYDON FINISH No. 79 (17279)

This is a good grade of Oxydon Finish, and for brushing should be reduced about 10 per cent with S-W Reducer No. 0974 or benzine. For dipping, it should be reduced about 50 per cent, and for spraying about 33 1/4 per cent. Will bake in two hours at 250 degrees F. Bakes with a gloss not quite as high as Oxydon Finish Rx 6436.

1s.....	1 85
5s.....	1 55
Bbls.....	1 70

OXYDON FROSTINE (01046)

This can be brushed full body or reduced 10 per cent with turpentine for dip work, and baked for one and one-half hours at 350 degrees. To obtain best results with Frostine, it should be applied over a gloss or a finish like 6982 when reduced about 66 2/3 per cent, or 6980 when reduced 25 per cent, or 6438 when applied full body. Frostine is a clear Varnish and the finish obtained by causing the varnish to check in the process of drying.

1s.....	1 85
5s.....	1 75
Bbls.....	1 60

OXYDON FINISHES (Air Drying)

OXYDON FINISH No. 85 (6985)

This is high grade quality of Oxydon Finish, recommended for air drying only. Should be used full body for brushing; for dipping, reduce about 66 2/3 per cent; for spraying, about 33 1/4 per cent with S-W Reducer or benzine. Air dries to handle in six hours and hard over night. Dries with a good egg shell finish a little higher gloss than Oxydon Finish Rx 14767.

1s.....	2 00
5s.....	1 90
Bbls.....	1 75

OXYDON FINISH No. 79 (17279)

This Oxydon Finish is recommended for air drying as well as baking. Will air dry to handle in six hours and hard over night. Dries with a gloss similar to Rx 6436.

1s.....	1 95
5s.....	1 85
Bbls.....	1 70

OXYDON FINISH No. 92 (17392)

This Oxydon Finish can be recommended for air drying as well as baking. Will air dry to handle in six hours or hard over night. The gloss is slightly less than Rx 17279.

1s.....	1 45
5s.....	1 35
Bbls.....	1 20

SHERWIN-WILLIAMS PRODUCTS

BRAS-BRITE

For cleaning and polishing brass and other polished metals.

	Qts.	½ Gals.	1s	5s
(14755).....	45	80	1 40	1 30

BRONZE POWDERS

ALUMINUM BRONZE (Dry)

Screw top cans.

	1s	5s	Bbls.
No. 8000 (292 Dry).....	1 00	80	80

DRY BRONZE

	1s	5s	Bbls.
C. M. F. L. Aluminium XXX.....	2 25	20	
C. M. F. L. Aluminium A.....	2 00	10	
Brilliant Aluminium (292).....	1 00	10	
C. M. F. L. Gold XXX.....	2 15	20	
C. M. F. L. Gold A.....	1 90	10	
No. 10,000 Gold.....	1 50	15	
No. 5,000 Gold.....	1 00	10	
No. 1,000 Gold.....	90	10	
No. 8,000 Gold.....	1 25	12	

BULLETIN COLORS (Paste)

These colors have been especially adapted and intended to be used by sign painters for all types of exterior signs and billboards exposed to all kinds of weather.

Carefully tested dry colors are ground exceedingly fine in pure linseed oil and represent the best quality it is possible to make.

S-W Bulletin Colors are known for their permanence of color, clearness of tone, tinting strength, their solid covering qualities and durability. They are supplied in heavy paste form so that they may be thinned to the proper consistency for application.

	1s	5s	12 ½s	25s
Bulletin Yellow, Lemon (887).....	46	44	42	40
Bulletin Yellow, Light (888).....	40	44	42	40
Bulletin Yellow, Medium (889).....	42	40	38	36
Bulletin Yellow, Orange (894).....	46	44	42	40
Bulletin Blue, Light (859).....	41	39	37	35
Bulletin Blue, Dark (863).....	38	37	35	33
Bulletin Green, Light (860).....	36	34	32	30
Bulletin Green, Medium (861).....	36	34	32	30
Bulletin Green, Dark (862).....	36	34	32	30
Bulletin Dragon Red (20555).....	76	74	72	70
Bulletin Ultramarine Blue (219).....	45	43	41	---
Bulletin Lamp Black (216).....	35	33	31	---
Bulletin Ivory Drop Black (215).....	29	27	25	---

COFFIN ENAMEL FINISHES (Paste)

White Undercoater to be reduced with turpentine as a priming coat and the White Finishing to be reduced with Finest White Damar Varnish for finishing coat.

	25s
White Undercoater (25242).....	22
White Finishing Enamel (8657).....	30

SHERWIN-WILLIAMS PRODUCTS**CONDUIT PIPE PAINT (Liquid)**

For underground work.

	1a	5a	bbis.
Black (0727).....	75	60	40

ELEVATOR PAINTS (Liquid)

For plain exteriors.

	1a	5a	bbis.
Brown (1626).....	1 30	1 20	1 00
Red (3471).....	1 30	1 20	1 00
Slate (411).....	2 35	2 25	2 10

LUSTRAL ENAMELS ("A" Quality)

The "A" Quality represents the highest grade Lustral Enamel Quality for air drying and baking purposes. They are especially adapted for finishing machinery, engines, cream cans, small express wagons, sleds, high grade toys, small bicycles, toy automobiles and certain grades of farm implements that are not finished with paste colors and varnished over. They can be used on wood and metal and carry sufficient body to cover thoroughly one coat, over any fair surface. Will dry to handle in 6 to 8 hours; hard in 24 hours. If baking is desired, they should be baked at 150 to 175 degrees from 2 to 3 hours, depending upon the shades. The light or delicate will not take as high heat as the dark shades.

	1a	5a	bbis.
Vermilion (18067).....	4 00	3 80	3 75
Tartar Red, Light (18068).....	2 50	2 40	2 25
Tartar Red, Dark (17672).....	2 50	2 40	2 25
Maroon, Light (18071).....	2 40	2 30	2 15
Maroon, Medium (18069).....	2 55	2 45	2 30
Maroon, Dark (18070).....	3 00	2 90	2 75
Green, Light (18072).....	2 40	2 30	2 15
Green, Medium (17673).....	2 50	2 40	2 25
Green, Dark (18073).....	2 40	2 30	2 15
Olive Green (18074).....	2 40	2 30	2 15
Olive Green, Light (18795).....	2 40	2 30	2 15
Olive Green, Dark (18796).....	2 40	2 30	2 15
Yellow, Medium (17671).....	2 45	2 35	2 20
Yellow, Orange (18075).....	2 75	2 65	2 50
Lemon Yellow (18791).....	2 40	2 30	2 15
Gray, Light (17670).....	2 25	2 15	2 00
Gray, Dark (18076).....	2 25	2 15	2 00
French Gray (18769).....	2 25	2 15	2 00
Steel Gray (18790).....	2 25	2 15	2 00
Blue, Light (17674).....	2 40	2 30	2 15
Blue, Medium (18077).....	2 40	2 30	2 15
Blue, Dark (18078).....	2 40	2 30	2 15
Royal Blue (18792).....	2 70	2 60	2 45
Rattan (18793).....	2 25	2 15	2 00
Ivory (18794).....	2 25	2 15	2 00
Brown, Light (18106).....	2 50	2 40	2 25
Brown, Dark (18079).....	2 40	2 30	2 15
Black (17659).....	2 15	2 05	1 90

LUSTRAL ENAMELS ("B" Quality)

The "B" Quality Lustral Enamels are supplied in the exact shades of the "A" Quality with the exception that they are a little cheaper in quality, but can be used for the same purposes and in the same way. The "B" Quality represents our old original Lustral Enamel Quality.

	1a	5a	bbis.
Vermilion (6663).....	3 78	3 65	3 50
Tartar Red, Light (18466).....	2 28	2 18	2 00
Tartar Red, Dark (18450).....	2 28	2 18	2 00
Maroon, Light (6640).....	2 28	2 18	2 00
Maroon, Medium (6645).....	2 28	2 18	2 00
Maroon, Dark (6648).....	2 60	2 50	2 35
Green, Light (6602).....	2 05	1 95	1 80
Green, Medium (6605).....	2 08	1 98	1 80
Green, Dark (6608).....	2 10	2 00	1 85
Olive Green (6616).....	2 10	2 00	1 85
Olive Green, Light (6638).....	2 10	2 00	1 85
Olive Green, Dark (6639).....	2 10	2 00	1 85
Lemon Yellow (6634).....	2 28	2 18	2 00
Yellow, Dark (6671).....	2 28	2 18	2 00
Yellow, Orange (6672).....	2 40	2 30	2 15
Gray, Extra Light (7700).....	2 00	1 90	1 75
Gray, Light (14251).....	2 00	1 90	1 75
Gray, Dark (6496).....	2 00	1 90	1 75
French Gray (6632).....	2 00	1 90	1 75
Steel Gray (6633).....	2 05	1 95	1 85
Blue, Light (6622).....	2 08	1 98	1 80
Blue, Medium (6625).....	2 08	1 98	1 80
Blue, Dark (6631).....	2 08	1 98	1 80
Royal Blue (6635).....	2 40	2 30	2 15
Rattan (6636).....	2 00	1 90	1 75
Ivory (6637).....	2 00	1 90	1 75
Brown, Light (18107).....	2 05	1 95	1 80
Brown, Dark (14428).....	2 05	1 95	1 80
Black (6371).....	1 65	1 75	1 60
*Spartan Red, Medium (6665).....	2 38	2 28	2 10
Ivory Undercoater (17660).....	2 00	1 90	1 75

*Spartan Red matches Tartar Red Dark R 18450

TOY ENAMELS (Velvet Finish)

Velvet Finish Toy Enamels are designed for finishing toys of various types, where a high grade uniform finish is desired. For brushing it can be reduced approximately 33 1/3%, or reduced 50% for spray work, or reduced 75% for dipping with No. 74 Reducer or Naphtha, depending on the nature of the surface to be coated. When so used, they cover solid with uniform smooth Egg-Shell gloss finish; will air dry over night or can be baked four hours at 125 to 140 degrees, after which they are finished with one coat Toy Varnish. Any necessary striping or decorating should be done before the application of Finishing Varnish.

	1a	5a	bbis.
Light Yellow (22216).....	2 40	2 30	2 15
Deep Orange (22217).....	2 60	2 50	2 35
Naples Yellow (22218).....	2 30	2 20	2 05
Apple Green (18751).....	2 65	2 55	2 40
Nile Green (22219).....	2 70	2 60	2 45
Peacock Green (22220).....	2 80	2 70	2 55
Bottle Green (22221).....	2 38	2 28	2 10
Chrome Green, Medium (22222).....	2 70	2 60	2 45
Light Tan (22223).....	2 60	2 40	2 25
Golden Tan (22224).....	2 40	2 30	2 15
Brown (22225).....	2 18	2 08	1 90
Light Blue (22226).....	2 30	2 20	2 05
Silk Blue (22227).....	2 40	2 30	2 15
Medium Blue (22228).....	2 70	2 60	2 45
Dark Blue (22229).....	2 38	2 28	2 10
Radio Red (23040).....	2 35	2 25	2 10
Drab (22230).....	2 80	2 40	2 25
Gray (22231).....	2 40	2 30	2 15

SHERWIN-WILLIAMS PRODUCTS**METER ENAMELS**

Meter Enamels cover solid one coat over bright tin or iron. Dry hard over night with a high gloss. Do not chip or flake when knocked, but represent a very elastic, durable finish. Not easily affected by dampness.

	1a	5a	bbbs.
Black (7100)	2 00	1 80	1 75
Red (7337)	2 30	2 20	2 05

SPIRIT ENAMELS (Liquid)

Spirit Enamels are especially adaptable and highly recommended for use on tags, novelties, dolls and miscellaneous specialties. They are also splendid material for use on the interior of refrigerators as they are odorless and result in extremely tough and tenacious finish. These Enamels dry to handle in one to 1 1/2 hours with a rich high gloss. Spirit Enamels should not be reduced with denatured alcohol due to the fact that the gum used therein is not soluble in straight alcohol. All Spirit Enamels to be thinned only should be reduced with Spirit Enamel Thinner, Rx 02900 and if a maximum gloss is desired, Spirit Enamel Gloss Reducer, Rx 02732, should be used.

	1a	5a	bbbs.
Black Enamel (01132)			
Blue, Yale, Light (17636)			
Blue, Yale, Dark (17641)			
Brown, Golden (17637)			
Clear (01096)			
Gray, Silver (17635)			
Green, Emerald (17639)			
Red, Tartar (17643)			
Red, Tuscan (17642)			
Yellow, Aurora (17640)			
White Primer (17635)			
Prices upon application			
White Finishing (6017)	3 00	2 90	2 75

FACTORY COATING

Cold Water Paint for inside use in factories, etc. Five pounds of powder, mixed with water, will make a gallon, which covers approximately 200 square feet.

	bbbs.
White	1-5 bbbs 05

FILLERS, WOOD (Paste)

For filling open grain wood. Thin to a cream consistency with benzine, or half benzine and half turpentine. Usually ten pounds of Filler to one gallon of Reducer will give the correct consistency. The Filler will harden as it is allowed to dry, but before it becomes dry, take a piece of burlap and wipe up the Filler, wiping across the grain of the wood. In this way you rub the Filler into the small pores of the wood and fill them. This should be done after the Filler has had from twenty to forty-five minutes' time to dry, according to the conditions.

Where staining and filling requires one operation, it would be necessary to stain the Filler to a greater extent than if the result was to be secured with two operations. Therefore, we recommend Golden Oak Stain Rx 0636 mixed with the Filler after both have been thinned. Different results will be secured by greater amount of stain used, and this can be determined best by the mechanic. Kitchen chairs, and other woodwork produced in large quantities and sold comparatively cheap are finished in this way.

FILLERS, WOOD (Paste)—Continued

	25s	100s	1/2-bbls. and bbls.
Antique Oak (4).....			
Golden Oak (3).....			
Golden Oak, Dark (20845).....			
Light Oak (1).....			
Red Oak (3).....	12	10	08
Transparent (20049).....			
Mahogany (6).....			
Walnut (2).....			
Early English (20845).....			

FLAT BLACK (Liquid) (Air-Drying)

These Blacks are for producing a dull, dead, wrought iron finish on wood or metal, particularly suited for picture frames, mouldings, ornamental iron work, lamps, gas fixtures, etc. They are easily applied, have good covering capacity and splendid hiding power, covering solid with one coat. They are also very durable.

	1s	5s
Bauer Barff Finish (6771).....	1 50	1 40
Egg-Shell Finish Black (42).....	2 25	2 15
Flat Black Finish for Wood (6771).....	1 50	1 40
Flat Black, Auto and Radiator (18131).....	Barrels only	1 00

FLAXOAP

A pure linseed oil soap, particularly adapted for washing automobiles and carriages.

	50s	1/2-bbls.	bbls.
Flaxoap (M 1).....	12 1/2	11 1/2	11

FLAT-TONE (Liquid)

A flat washable oil paint to produce a flat wall finish for artistic decoration of interior plastered walls, ceilings and woodwork of residences, office buildings, schools, hotels, theatres, churches, etc.

Very durable and sanitary. For two coat work, first coat should be thinned 50% with Flat-Tone Mixing Size, 01083; second coat to be applied full body. Can be washed with soap and water without any ill effects.

	1s	5s	bbls.
Blue, Sky (16240).....			
Bright Sage (15197).....			
Brown, Coconut (15199).....			
Buff (15189).....			
Caen Stone (16210).....			
Cream (15187).....			
Gray, Pearl (15191).....			
Gray, Silver (15195).....			
Green, Forest (15407).....	2 00	1 90	1 85
Green, Pale (16241).....			
Ivory (16236).....			
Ivory Tan (16227).....			
Olive Tan (16243).....			
Pink, Shell (15194).....			
Tan (15201).....			
White (15185).....			
Yellow, Light (16242).....			

FLAT-TONE MIXING SIZE

Especially designed for mixing with Flat-Tone.

(01083).....	1 55	1 55	1 40
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Effective March 14, 1927

SHERWIN-WILLIAMS PRODUCTS

FLOOR-WIPE

For cleaning and renewing the finish of waxed and varnished floors, woodwork, furniture, etc.

	1s	5s	bbis.
(01060).....	1 65	1 65	1 40

FURNITURE GRAINING INK (Paste)

For imitating oak on plain woods.

	5s	25s	100s
Golden Oak (20549).....	20	17	15

GALVANIZED IRON PRIMER

For metal doors, interior and exterior metal work other than structural steel and ornamental iron work. Galvanized iron metal should be cleaned with a solution of three parts of benzine and one part of denatured alcohol or a weak solution of vinegar or acetic acid.

	1s	5s	bbis.
Gray (6300).....	2 40	2 30	2 15

GAS HOLDER PAINTS

Gas Holder Paints are especially constructed to withstand severe exposure to sun and other elements, and also sulfuric acid water which all gas tanks come in contact with daily. They cover solid one coat. At least two days should be allowed for recoating and this paint is used by the largest gas and public service corporations with perfect satisfaction.

	1s	5s	bbis.
Rich Red, No. 26 (15426).....	1 85	1 75	1 60
Moss Green, No. 96 (15498).....	2 00	1 90	1 75
Silver Gray, No. 68 (15768).....	2 10	2 00	1 85

KEG PAINTS (Liquid)

For marking kegs, buckets, etc.

	1s	5s	bbis.
Black (79).....	2 10	2 00	1 85
Blue (78).....	2 85	2 65	2 40
Green (77).....	2 85	2 55	2 40
Red (76).....	2 85	2 75	2 60
White (80).....	2 65	2 75	2 60
Yellow (75).....	2 65	2 55	2 40

SHERWIN-WILLIAMS PRODUCTS

LACQUERS (Air-Drying)

A varnish lacquer for use on Toys, Implements, etc. Air dries to handle in four hours and hard in six hours. Can be reduced with turpentine or benzine. Amount of reduction depends upon strength of color desired.

	1s	5s	bbbls.
Black (6462).....	1 65	1 55	1 40
Blue, Light (7245).....	1 65	1 55	1 40
Blue, Medium (6090).....	1 75	1 55	1 50
Blue, Dark (7361).....	2 00	1 90	1 75
Bronze (14042).....	1 80	1 50	1 35
Gold (7331).....	1 85	1 75	1 60
Green (7181).....	2 75	2 65	2 50
Red (7182).....	2 50	2 40	2 25
Wrought Iron (Clear) (7430).....	1 65	1 55	1 40
Transparent (0864).....	1 60	1 50	1 35
Special Blue (14981).....	1 50	1 40	1 25

LACQUERS (Baking)

A varnish lacquer for use on toys, tinware, metal, implements, etc. Baking time, one hour at 180 degrees. Can be reduced with turpentine or benzine. Amount of reduction depends upon the strength of color desired.

	1s	5s	bbbls.
Blue, Light (18098).....	1 75	1 65	1 50
Blue, Medium (6090).....	1 75	1 65	1 50
Blue, Dark (14054).....	2 00	1 90	1 75
Bronze (14082).....	1 75	1 65	1 50
Gold (14453).....	1 75	1 65	1 50
Green (18099).....	3 50	3 40	3 25
Red (18100).....	2 75	2 65	2 50
Wrought Iron (Clear) (7430).....	1 65	1 55	1 40

LINOLEUM CEMENT

For cementing linoleum to wood, metal, concrete or stone surfaces.

	1s	5s	bbbls.
Linoleum Cement (18471).....	2 10	2 00	1 85

LITHOGRAPHERS' VARNISH (Liquid)

Prices represent minimum advance to be quoted over market prices on raw linseed oil. Where local conditions favor it, higher prices than the minimum limit should always be named. These prices are F. O. B. Cleveland, Ohio.

For immediate quotation to customer for small local business these differentials can be used. For quotations on quantity business special prices must be received from the Cleveland Office, where price will be given basing price on naught numbers with no reference to the prevailing market price on linseed oil. For other numbers the listed differential between naught numbers and the number quoting on must be added. For example, when quoting on No. 1 regular add 2 cents per gal.—on No. 2 regular, 7 cents per gallon, etc.

We will not pay freight on Litho Varnishes of any character.

Rx No.	bbbls.
05000 Regular Litho Varnish No. 5/0.....	25
05001 Regular Litho Varnish No. 4/0.....	25
05002 Regular Litho Varnish No. 3/0.....	25
05003 Regular Litho Varnish No. 2/0.....	25
05004 Regular Litho Varnish No. 0.....	25
05005 Regular Litho Varnish No. 1.....	27
05006 Regular Litho Varnish No. 2.....	27
05007 Regular Litho Varnish No. 3.....	27
05008 Regular Litho Varnish No. 4.....	27
05009 Regular Litho Varnish No. 5.....	27
05010 Regular Litho Varnish No. 6.....	27
05011 Regular Litho Varnish No. 7.....	27
05012 Regular Litho Varnish No. 8.....	27
05020 Burnt Regular Litho Varnish No. 5/0.....	28
05021 Burnt Regular Litho Varnish No. 4/0.....	28
05022 Burnt Regular Litho Varnish No. 3/0.....	28
05023 Burnt Regular Litho Varnish No. 2/0.....	28
05024 Burnt Regular Litho Varnish No. 0.....	28
05025 Burnt Regular Litho Varnish No. 1.....	30
05026 Burnt Regular Litho Varnish No. 2.....	30
05027 Burnt Regular Litho Varnish No. 3.....	30
05028 Burnt Regular Litho Varnish No. 4.....	30
05029 Burnt Regular Litho Varnish No. 5.....	30
05030 Burnt Regular Litho Varnish No. 6.....	30
05031 Burnt Regular Litho Varnish No. 7.....	30
05032 Burnt Regular Litho Varnish No. 8.....	30
05040 Transparent Litho Varnish No. 5/0.....	30
05041 Transparent Litho Varnish No. 4/0.....	30
05042 Transparent Litho Varnish No. 3/0.....	30
05043 Transparent Litho Varnish No. 2/0.....	30
05044 Transparent Litho Varnish No. 0.....	30
05045 Transparent Litho Varnish No. 1.....	32
05046 Transparent Litho Varnish No. 2.....	32
05047 Transparent Litho Varnish No. 3.....	32
05048 Transparent Litho Varnish No. 4.....	32
05049 Transparent Litho Varnish No. 5.....	32
05060 Burnt Transparent Litho Varnish No. 5/0.....	33
05061 Burnt Transparent Litho Varnish No. 4/0.....	33
05062 Burnt Transparent Litho Varnish No. 3/0.....	33
05063 Burnt Transparent Litho Varnish No. 2/0.....	33
05064 Burnt Transparent Litho Varnish No. 0.....	33
05065 Burnt Transparent Litho Varnish No. 1.....	35
05066 Burnt Transparent Litho Varnish No. 2.....	35
05067 Burnt Transparent Litho Varnish No. 3.....	35
05068 Burnt Transparent Litho Varnish No. 4.....	35
05069 Burnt Transparent Litho Varnish No. 5.....	35

PLATE OIL

Prices represent minimum advance to be quoted over market prices on raw linseed oil. Where local conditions favor it, higher prices than the minimum limit should always be named. These prices are F. O. B. Cleveland, Ohio.

For immediate quotation to customer for small local business these differentials can be used. For quotations on quantity business special prices must be received from the Cleveland Office, where price will be given with no reference to the prevailing market price on linseed oil.

We will not pay freight on Plate Oils of any character.

Rx No.	bbbls.
05090 Plate Oil No. 0 1/4.....	60
05091 Plate Oil No. 1.....	62 1/4
05092 Plate Oil No. 2.....	65
05093 Plate Oil No. 2 1/4.....	70
05094 Plate Oil No. 3.....	75
05095 Plate Oil No. 4.....	80
05096 Plate Oil No. 5.....	85

MACHINE PAINTS (Paste)

Machine Paints represent a range of Grays from a light blue to a very dark blue, including Red, Jet Black and White. They are furnished in paste form and should be thinned with No. 74 Reducer, 0974, when used as a priming paint. These paints are used mostly for brushing, and on such class of work that does not call for an Oil Proof Machine Paint, this paint when reduced will furnish a perfectly flat finish satisfactory for many classes of trade. It makes a very economical paint for further finishing with Fillers and Oil Proof Paints and Enamels. Twenty-four hours after applying the primer apply your Filler Coat by reducing to a cream consistency the same as the Primer, or knife the Filler into bad imperfections, after which more brush coats of the Filler can be applied to level out the surface, where knocking has been done. Three brush coats of Filler can be applied in one day, but care must be exercised in applying the Machine Filler with a knife. Too heavy or thick a coating must not be applied because it will cause cracking. If all brush coats are used, cross each alternate coat, which will make it sand easier. If Primer is not used for priming, one coat of Filler must be reduced to a thin brushing consistency and applied as a Primer, after which the regular coats can be applied. Primers and Fillers should be used as flat as possible on all heated surfaces. Always keep the material covered with water when the package is open. This is to eliminate the evaporation of the vehicle in the material and keep the Primer and Filler from drying out hard and forming a crust on top.

	25-lb. pails	bbls. and ½-bbls.	Non- return- able drums
Machine Paint, A B (60-61).....	10 ½	08 ¼	08
Machine Paint, C and D (62-63).....	10 ½	08 ¼	08 ¼
Machine Paint, E (64).....	09 ½	07 ½	08 ¼
Machine Paint, Red (65).....	10 ½	08 ¼	08
Machine Paint, Jet Black (3480).....	11	08	08 ¼
Machine Paint, White (3484).....	14	12	12 ½

MACHINE FILLERS (Paste)

	25-lb. pails	bbls. and ½-bbls.	Non- return- able drums
Machine Filler, Dark (66).....	09 ½	07 ½	08
Machine Filler, Red (68).....	11	09	09 ¼
Machine Filler, Pink (20659).....	11	09	09 ¼
Machine Filler, Maroon, (20076).....	11	09	09 ¼
Machine Filler, White (3552).....	11	09	09 ¼
Machine Filler, Dark (Special) (20420).....	09	07	07 ½
Machine Filler, High Heat (21504).....	11 ½	08 ¼	10

MACHINE PRIMER AND SEALERS (Liquid)

Machine Primer—Rx 6701 is the highest type of Primer for this class of work and where price is no consideration and the highest grade work is desired, this Primer should be recommended. Sealer coats as shown are applied directly over the Filler after it has been sanded or rubbed out to a surface. Sealer is applied for the purpose of preventing the absorption or sinking in of subsequent coats. In the finishing of a gas engine after the Sealer has been applied the engine is tested and after being thoroughly tested it is cleaned from any grease that has been deposited on it from the handling by the workmen, and is ready for the finishing coat.

Should no Sealer coat be used over the Filler, two coats of Oil Proof Machine Paint can be used, the first coat acting as a Sealer and the second coat acting as the finish. It is very important that particular attention be given to the brushing of Oil Proof Machine Paint. This material should not be brushed too much nor should it be lapped over. Brush in one continual way and do not cross. If brush marks show or an un-uniform finish is produced in nine cases out of ten it can be traced to the method of application. If the material should become a trifle bit heavy and show a gloss finish when applied, reduce it a trifle with turpentine to bring it back to its natural consistency.

MACHINE PRIMER AND SEALERS—Continued

Special—In the finishing of gas engines, Oil Proofs are not usually used, but Enamels are used in place of them, and applied directly over the Sealer coat. We direct your attention to our Lustral Enamels for this finish. On very high grade work where striping or decorating is done, curl hair your Lustral Enamel where you will do your striping or decorating and then apply one coat of Clear Finishing Varnish over the entire engine.

Machine Primer (6701).....	1c
Machine Sealer Black (14036).....	2 00
Machine Sealer, Dark (7284).....	1 80
Machine Sealer, Gray (14250).....	1 80
Machine Sealer, Green (7325).....	2 25
Machine Sealer, Maroon (7300).....	2 15
Machine Sealer, Red (7233).....	2 25
	2 25

OIL-PROOF MACHINE PAINT

Black (7682).....	1c
Gray, No. 76 (14917).....	2 10
Gray, No. 77 (7372).....	2 10
Gray, No. 78 (7778).....	2 10
Gray, No. 79 (7345).....	2 10
Green (14893).....	2 10

METAL FURNITURE GRAINING FINISHES

PRIMERS (Liquid)

Metal Primer for Light Oak (14456).....	1c
Metal Primer for Dark Oak (14456).....	2 15
Metal Primer for Circassian Walnut (14456).....	2 15
Metal Primer for Bird's-eye Maple (14456).....	2 15
Metal Primer for Mahogany (4907).....	2 25
Metal Primer for Copper Bronze (4907).....	2 25

SURFACERS (Paste)

Surfacer for Light Oak (8515).....	25c
Surfacer for Dark Oak (8513).....	17
Surfacer for Circassian Walnut (8750).....	17
Surfacer for Mahogany (8750).....	17
Surfacer for Bird's-eye Maple (8751).....	17

GRAINING GROUND (Paste)

Graining Ground for Light Oak (8744).....	20c
Graining Ground for Dark Oak (8744).....	24
Graining Ground for Circassian Walnut (8997).....	24
Graining Ground for Mahogany (8745).....	20
*Graining Ground for Bird's-eye Maple, per gallon (8937).....	2 15

*Ground Color for Bird's-eye Maple is White, ready for use, and should be grained with water colors (Distemper Colors). Varnish and baking give sufficient color to the ground, which should not be baked more than 2 ½ hours at 160 degrees, or 3 ½ hours at 180 degrees.

GRAINING COLORS (Paste)

Graining Color for Light Oak (20482).....	20c
Graining Color for Dark Oak (20696).....	33
*Graining Color for Circassian Walnut (20482).....	33
Graining Color for Mahogany (20696).....	33

*Graining Colors for Circassian Walnut, not mixed but used separately and blended together.

METAL FURNITURE GRAINING FINISHES

FINISHING (Liquid)

Where the manufacturer or consumer has had experience with the air-brush or sprayer, these goods are often applied with it up to and including Ground Colors.

	1c	5c	bbis.
Metal Furniture Baking Varnish (01003).....	3 25	3 15	3 00

METAL FURNITURE FINISHING METHOD

In order to simplify matters as much as possible, we have subdivided the subject of Metal Furniture Finishes covering the more important branches of the business, and submit the following as representative of the goods and methods that would generally be used for producing the various effects:

CLASS A

DIVISION 1—IMITATION WOOD FINISHES

The imitation of each different wood is carried through in practically the same manner, the difference being in the color of the various materials, and, of course, the difference in graining.

Operation 1—The surface should be thoroughly cleaned and entirely free from rust, dirt and grease. If necessary, remove rust with sand-blast, wire brushes or emery or sandpaper, and wash with gasoline. The addition of about 25 per cent of wood alcohol to the gasoline will be conducive to best results.

Operation 2—Primer—supplied ready for use. One coat is generally used and is applied by brushing; baked 4 hours at 180 degrees.

Operation 3-A—Surfacer—supplied in paste form. Can be brushed or knifed and should be reduced with turpentine to the desired consistency for either brushing or knifing. Surfacers are only used to fill joints or when the metal is rough and it is necessary to use a pigment surfacer to fill the depressions or pits. Sand to surface, being careful not to cut through Primer. Bake 3 hours at 160 to 180 degrees, using the lower temperature for the lighter shades.

Operation 3—Ground Color—supplied in semi-paste consistency. Should be reduced with turpentine to a brushing consistency and brushed one coat. It flows out smoothly and covers well. Bakes in 4 hours at 180 degrees. Sand lightly, using fine sandpaper.

Operation 4—Graining Color—supplied in paste form. Reduce with turpentine to a body consistent with the color used. The grainer frequently tempers the graining color to suit surface conditions and his own ideas of blending. Applied and blended or grained to resemble grain of the wood. Bakes in three hours at 180 degrees. Some manufacturers prefer water color for graining, and for this purpose we would recommend our Distemper Colors, although we consider our regular Graining Colors superior to water colors, as they are ground in oil and adhere better.

Operation 5—Clear Varnish—brushed and baked 4 to 5 hours at 180 degrees. Rubbed with powdered pumice-stone and water.

Operation 6—Clear Varnish—brushed and baked 4 to 5 hours at 180 degrees. Either rubbed or left in the gloss as desired.

Operation 6 can be eliminated, depending on the results desired, and only one coat of varnish used.

DIVISION 2—SOLID COLOR FINISHES

Metal Furniture Filing Cabinets, etc. The usual method of finishing the above is as follows: Everything is dipped one coat of Primer, which is usually reduced about 25 per cent with turpentine, drained well and baked for 3 1/4 hours at 180 degrees to 200 degrees. Primer used is always an approximate match for the Enamel to follow, so that this one coat will suffice for the interiors or parts not always in view. The dipping of this also insures the thorough coating of the metal at all points, thus preventing any rusting taking place.

Following this, Primer is sanded lightly on all exterior surfaces and one coat of Metal Finishing Enamel Baking brushed on. This is baked at 180 to 200 degrees for 3 1/4 hours. Rubbed with powdered pumice and water: stripes or transfer, and when dry, followed by one brush-coat of our Metal Furniture Finishing Varnish Baking. This is also baked for 3 1/4 hours at 180 to 200 degrees, and either left in the gloss or rubbed with powdered pumice and water and left in the rubbed finish.

SHERWIN-WILLIAMS PRODUCTS

METAL FURNITURE FINISHING METHOD

CLASS B

This would comprise the same materials and procedure throughout as Class A, but for cheaper grades of work the Clear Varnish can be omitted when there is no stripping or transfer work. This class of finish is also either left in the gloss or rubbed and left dull. The latter is the more common and really the most desired, as this character of finish mars or scratches less readily. We believe it preferable to use linseed or machine oil instead of water for rubbing this class of finish, as this gives a little richer tone to the color. Sometimes rotten stone is used to rub instead of pumice, it being much softer and finer and does not tend to scratch as much and leaves a more velvet finish than when pumice is used.

CLASS C

This class of finish is used quite generally on metal lockers and in places where a high-class finish is not necessary and not sufficiently economical to suit the manufacturer. Various grades of materials are used from our Lustral Quality Enamels up to those mentioned above. The cheaper goods are either air-dried, approximately eighteen hours or baked $2\frac{1}{4}$ hours at 160 degrees, reduced approximately 20 per cent, and dipped or brushed as may suit the manufacturer. Usually not more than one coat is applied. The best recommendation for this class of work would be as follows:

Apply a dip-coat of our Primer previously mentioned (Class A—Division 2), reduced approximately 50 per cent with Varnish Color Reducer, and baked approximately 3 hours at 180 degrees, or dip one coat of Primer exactly same as Class A—Division 2, baked $3\frac{1}{4}$ hours at 180 degrees, and rub face or doors, prominent parts, etc. Stripe and brush one coat of varnish; bake $3\frac{1}{4}$ hours at 180 degrees.

METAL FURNITURE FINISHES

For use on lockers and metal office furniture of every description. The universal shade is Olive Green. Material can be brushed, sprayed or dipped, and the amount of reduction is governed by the article that is being finished. Usually for dipping and spraying the material will reduce 25 per cent with either Reducer No. 74—Rx 6974 or a turpentine substitute, and will bake hard in from $2\frac{1}{4}$ to 3 hours at 225 degrees. Where two coats of material are used, use the same material for both coats.

	1 lb.	5 lb.	55 lb.
Olive Brown No. 59, Semi-gloss (18159)..... (Victor Corcoran Standard)	2 10	8.00	1.36
Olive Green, L, Semi-gloss, No. 33 (18433).....	2 38	2 25	2 10
Olive Green, M, Semi-gloss, No. 32 (18432).....	3 15	3 05	2 30
Olive Green, D, Semi-gloss, No. 31 (18431)..... (American Kardex Standard)	2 20	2 10	1 95
Olive Green, L, Rubbed Finish, No. 34 (18434).....	2 25	2 15	2 00
Olive Green, M, Rubbed Finish No. 74 (7774)..... (Shaw-Walker Standard)	2 10	2 00	1 85
Olive Green, D, Rubbed Finish, No. 35 (18435).....	2 35	2 25	2 10
Olive Green, No. 80, Rubbed Finish (18280).....	2 50	2 40	2 25
Olive Drab, D, Gloss Finish, No. 38 (18238)..... (Macey Standard)	2 00	1 90	1 75
Olive Drab, L, Gloss Finish, No. 36 (18436).....	2 25	2 15	2 00
Olive Green, D, Gloss Finish, No. 67 (7467)..... (Mellink Standard)	2 75	2 65	2 50
Olive Brown, No. 40, Semi-gloss (7340).....	2 25	2 15	2 00
Olive Green, No. 82, Semi-gloss (18182)..... (Mellink Standard)	2 75	2 65	2 50
Lt. Olive Green, Gloss (17441).....	2 50	2 40	2 25

METALLIC PAINTS (Paste)

	25-lb. pails	55-lb. and 1/4-bbls.
Iron Ore Red, F (191).....	11	09
English Venetian Red, H (84).....	11	07 1/2
English Venetian Red, A (187).....	11	09
French Yellow Ochre, H (193).....	09 1/2	07 1/2
French Yellow Ochre, A (185).....	12	10

METAL PROTECTIVE PAINTS

For use in protecting structural iron and steel from corrosion. After exhaustive tests we are satisfied our line of Metal Protective Paints will produce a film that will effectively exclude moisture and air and resist gases which are in reality the causes of corrosion. The important points to remember are—An impervious film that will resist air and water—Firm drying and resistance against abrasion—Sufficient elasticity to withstand the ordinary expansion and contraction of metals—Permanence as to chemical reaction—Chemical neutrality or inertness toward iron and steel. The covering capacity is governed by the skill of the workmen in application, the brushes used, the condition of the weather—whether it be hot or cold and the condition of the metal that is being painted. For a general recommendation we recommend that one gallon will cover approximately one to two tons of steel, depending upon the character of surface.

CARBON PAINT, RED DIAMOND BRAND

A chemically inert paint made on a charcoal base. It was the first protective paint made on this principle, and was introduced by us many years ago. Since then other manufacturers have imitated it, and finding in the principle of manufacture a point of more than ordinary durability and protective value, have made it their leader. None of these imitations, however, have the same strong points of quality, since a large part of the value in Carbon Paint, Red Diamond Brand, is in the superiority of the linseed oil and the handling of the pigment. Made in liquid form only.

	1s	5s	bbls.
Carbon Paint, Red Diamond Brand (5998) (Very Dark Brown).....	2 25	2 15	2 00

METALASTIC

A careful combination of graphite and other inert materials, with strictly pure linseed oil, that has met with a large sale and gives excellent satisfaction. We especially recommend it on account of its economy in use, and its adaptability to meet the needs of difficult shop conditions. Will be found particularly valuable where rapid and hard drying qualities are essential. Made in liquid form.

	1s	5s	bbls.
Metalastic Black (5891) and Brown (5993).....	1 75	1 55	1 50
Metalastic Gray (9550).....	1 95	1 85	1 70
Metalastic Green (9260).....	1 95	1 85	1 70

NON-CORRODIBLE GRAPHITE

A pure graphite paint of entirely different character from the usual natural or combination graphites which contain a large percentage of inert materials. For durability and protective qualities, we recommend this as the best coating yet devised. It is made in the natural, dull graphite color, and contains only the pure natural graphite pigment combined with a specially treated pure linseed oil. Has superior working, brushing and covering qualities; is free from any tendency to settle hard in the package. Made in liquid form only.

	1s	5s	bbls.
Non-Corroddible Graphite (489).....	1 95	1 85	1 70

REINFORCED RED LEAD

Made on a red lead base to meet the demand for goods of this character. Though a substitute for red lead, it does unquestionably give better results, as it has not so high an oxidizing power and consequently allows the linseed oil to remain elastic for a much longer period. Has better working qualities and greater spreading power than red lead alone, and equal, if not greater, opacity. Made in liquid form only.

	1s	5s	bbls.
Reinforced Red Lead (16444).....	2 40	2 30	2 15

SHERWIN-WILLIAMS PRODUCTS**METAL PROTECTIVE PAINTS—Continued****SPECIAL LIQUID RED LEAD**

A Liquid Red Lead Paint to sell where necessary to compete with cheaper goods

	1s	5s	bbbl.
Special Liquid Red Lead (15984).....	2.00	1.90	1.75

CARBON BLACK

Being made on a carbon base from a selected stock, thoroughly incorporated with high-grade liquids of superior moisture-resisting qualities, it affords the consumer exceptional value from the standpoint of cost and durability. It works easily under the brush, covers well, dries firmly and represents a quality free from the tendency to settle hard in the package. Made in liquid form only.

	1s	5s	bbbl.
Carbon Black (15219).....	1.45	1.35	1.20
Metallic Brown (15220).....	1.45	1.35	1.20
Graphite Black (15223).....	1.40	1.30	1.15

KROMIK METAL PRIMER

Recommended as the most effective and economical primer for structural iron and steel. The pigment is composed largely of metal chromes and preservative oxides, to which is due the great effectiveness of this material as a priming coat for metal.

Kromik Metal Primer is designed for use as a shop or primary coating on structural iron or steel, and its use will tend to render iron and steel passive, thereby reducing electrolysis and corrosion to a minimum.

Kromik Metal Primer is less affected by sulphur fumes and gases, where it may be exposed through abrasions and defects in finishing coats, than are red lead paints. One of the main objections to red lead is that it is readily affected by the presence of such gases.

Kromik Metal Primer is easy working, is chemically neutral after the film is dry, has maximum spreading capacity, and in our opinion is the ideal primer for structural metal work.

For finishing coats use Metalastic.

	1s	5s	bbbl.
Kromik Metal Primer (14454).....	2.00	1.90	1.75

REDUCER No. 74

	1s	5s	N. R. Drums
Reducer No. 74 (0974).....	70	60	45

DADO ENAMELS (Liquid)

Dado Enamels cover solid one coat over satisfactory surface. Dry hard over night with a good gloss. Can be cleaned with soap and water without injury.

	1s	5s	bbis.
Dust Color (469).....			
Gray (487).....			
Light Brown (466).....	2 60	2 60	2 35
Maroon (378).....			
Slate (468).....			

CONCRETE FLOOR PAINT

In all manufacturing establishments the question of concrete floors and dusting is very serious. This line has been developed to add attractiveness to the room, also to allay the dusting. It will cover solid one coat, but two coats are recommended in all cases in order to secure a uniform finish. The material dries hard over night.

	1s	5s	bbis.
Dust Color (469).....			
Gray (487).....			
Light Brown (466).....			
Light Tan (488).....	2 60	2 60	2 35
Maroon (378).....			
Orange (452).....			
Slate (468).....			
Yellow (376).....			

CONCRETE AND CEMENT HARDENER

A Magnesium Fluosilicate which acts chemically on the concrete. It is not a preparation made of Silicate of Soda. Our material does not merely form a physical bond with it, but actually re-acts on the concrete surface, hardening it and strengthening it and leveling it, with the result that a thoroughly even surface is secured, yet one which will prove a satisfactory bonding surface, for subsequent coats of S-W Concrete Floor Finish.

(01304)..... Refer to Trade Sales, Page 14.

SAVE-LITE INTERIOR WHITE FINISHES

The value of a white finish for the interior walls of mills, factories, shops, warehouses, lofts, etc. is well known. Increased production, decreased cost of inspection, fewer mistakes, reduced liability of accidents, greater contentment and loyalty of workers are some of the benefits resulting from the use of a white finish. Illuminating engineers have found that the greatest help in the diffusion of light is a white wall. Gray or dark walls absorb and retain light while white walls repel and reflect light.

In a survey of lighting conditions made by the National Electric Lamp Association, it was found that better light not only increased the production but decreased spoilage, lowered the number of accidents and improved discipline as well as hygienic conditions.

SAVE-LITE EG-SHEL WHITE

The superiority of Save-Lite Eg-Shel White lies in its non-glare surface. Instead of reflecting the light in dazzling rays, Save-Lite Eg-Shel White diffuses it gently and evenly throughout the room shedding a soft radiance on the work insuring clear visibility and eliminating eye strain.

Save-Lite Eg-Shel White flows evenly, covering more surface than ordinary mill whites and while generally sprayed, also gives satisfactory results when brushed. It can be applied to any interior surface of wood, metal, brick, concrete, etc. retaining its smooth non-glare surface. It should not be recommended for exterior use.

Because of its great covering power Save-Lite Eg-Shel White is well adapted for use on soiled surfaces and where economy is the first consideration. One spray coat applied to such surface will show remarkable results. Two coats, however, are recommended where a solid covering white finish is required.

The surface to be finished should be dry and free from dust, dirt, oil, grease, etc. All loose particles of paint must first be removed by scraping with a broad knife, or brushing with a stiff wire brush.

Reduction of the paint depends largely on the condition of the surface to be painted. Rather than recommend definite reduction we feel the ability of the painter is such that he can better judge the reduction necessary to properly cover the surface to be painted.

New plaster walls vary in porosity and in order to seal the surface the first coat of Save-Lite Eg-Shel White should be thinned for brushing approximately 50% with Flat-Tone Mixing Size 01083. A further reduction of 10 to 15% with Reducer No. 74 or Turpentine is recommended where the material is to be sprayed.

On previously painted surfaces the first coat for brushing, should be reduced slightly with Reducer No. 74 or Pure Turpentine.

All cracks and nail holes should be filled after first or priming coat has been applied. Allow sufficient time for thorough drying before applying succeeding coats.

Save-Lite Eg-Shel White air dries to recoat in 24 hours.

For the second coat on all work use Save-Lite Eg-Shel White full body for brushing but if it is too heavy for certain work, thin to the desired consistency with Reducer No. 74 or Pure Turpentine.

Save-Lite Eg-Shel White is furnished in brushing consistency and for spraying should be reduced from 15 to 25% with Reducer No. 74 or Pure Turpentine.

Save-Lite Eg-Shel White can also be used as an Undercoater under Save-Lite Gloss White RX22107.

	1s	5s	bbls.
Save-Lite Eg-Shel White (19177).....	2 25	2 15	2 00

SAVE-LITE EG-SHEL WHITE No. 402

For Spraying Only

Save-Lite Eg-Shel White No. 402 has been developed for those who desire a material ready for spraying purposes. This product is similar to Save-Lite Eg-Shel White Rx19177 in quality, flowing, covering and degree of gloss. It air-dries to recoat in 24 hours. Can be applied to any interior surface of wood, metal, brick, concrete, etc., retaining its smooth non-glare surface. It should not be recommended for exterior use.

New plaster walls vary in porosity and in order to seal the surface the first coat of Save-Lite Eg-Shel White No. 402 should be thinned approximately 10% with Flat Tone Mixing Size 01083.

Save-Lite Eg-Shel White No. 402 can be used as undercoating under Save-Lite Gloss White Rx22107.

	1s	5s	bbls.
Save-Lite Eg-Shel White No. 402 (19402).....	2 00	1 90	1 75

SAVE-LITE GLOSS WHITE

Save-Lite Gloss White is provided for those who prefer a higher gloss finish than Save-Lite Eg-Shel White. It is designed especially for use on surfaces where high reflective qualities are considered an advantage as in warehouses, lofts, storage vaults, etc. It is suitable for either spraying or brushing, covers well, dries hard in 24 to 36 hours and is intensely white. Save-Lite Gloss White cleans easily and retains its brilliant luster after repeated washings.

Save-Lite Gloss White is furnished in brushing consistency and for spraying should be reduced from 15 to 25% with Reducer No. 74 or Pure Turpentine. It can be applied to any interior surface of wood, metal, brick and concrete. It should not be recommended for exterior use. For best results it should be applied over a suitable white undercoater.

	1s	5s	bbls.
Save-Lite Gloss White (22107).....	2 40	2 30	2 16

SAVE-LITE FUME RESISTING SEMI-GLOSS WHITE

Save-Lite Fume Resisting Semi-Gloss White has been developed to better resist the action of Sulphurous fumes and other acid fumes present around rubber plants, than any other of our regular products. It is suitable for either spraying or brushing without any reduction, covers well and dries to recoat in 24 to 36 hours. It can be applied to any interior surface of wood, metal, brick and concrete. It should not be recommended for exterior use.

New plaster walls vary in porosity and in order to seal the surface the first coat of Save-Lite Fume Resisting Semi-Gloss White should be thinned for brushing approximately 25% with Flat-Tone Mixing Size 01083. A further reduction of 10 to 15% with Reducer No. 74 or Turpentine is recommended where the material is to be sprayed.

	1s	5s	bbls.
Save-Lite Fume Resisting Semi-Gloss White (22101).....	2 40	2 30	2 16

SAVE-LITE FLAT WHITE

Save-Lite Flat White has been developed for a definite purpose where a dull or flat finish is desired. It has the working qualities and hiding capacity of Save-Lite Eg-Shel White but when dry has no gloss or sheen. Save-Lite Flat White can be both brushed and sprayed. It brushes full body or for spraying can be reduced approximately 25% with Reducer No. 74 or Pure Turpentine.

New plaster walls vary in porosity and in order to seal the surface the first coat of Save-Lite Flat White should be thinned for brushing approximately 50% with Flat-Tone Mixing Size 01083. A further reduction of 10 to 15% with Reducer No. 74 or Turpentine is recommended where the material is to be sprayed.

It can be applied to any interior surface of wood, metal, brick and concrete. It should not be recommended for exterior use.

Where price competition is a consideration Save-Lite White can be used as an undercoater under Save-Lite Gloss White (Rx 22107).

	1s	5s	bbls.
Save-Lite Flat White (19523)	1 75	1 65	1 50

SAVE-LITE UNDERCOATER WHITE

Save-Lite Undercoater White has been developed to use as the proper undercoater for Save-Lite Gloss White (22107). It flows out well under the brush, levels admirably, has satisfactory spreading and drying qualities and is very opaque. It produces a very smooth flat finish and sands readily without gumming the paper. It is suitable for either spraying or brushing and it can be applied to any interior surface of wood, metal, brick, concrete, etc. It should not be recommended for exterior use.

It is recommended to be brushed full body or for spraying it can be reduced from 15 to 25% with Reducer No. 74 or Pure Turpentine.

It dries to recoat in 24 hours.

New Plaster walls vary in porosity and in order to seal the surface the first coat of Save-Lite Undercoater White should be thinned for brushing approximately 25% with Flat-Tone Mixing Size 01083. A further reduction of 10 to 15% with Reducer No. 74 or Turpentine is recommended where the material is to be sprayed.

	1s	5s	bbls.
Save-Lite Undercoater White (18709).....	2 40	2 30	2 16

SHERWIN-WILLIAMS PRODUCTS**CONCRETE WALL FINISH**

The shades are very attractive, used mostly in offices and office buildings, producing a velvet finish that can be washed regularly with soap and water and kept in clean condition. It will cover solid two coats, working smoothly under the brush, eliminating the tendency so prominent in this type of paint to show brush marks. Will dry to recoat in 24 hours.

	1c	5c	bbbl.
Buff (15386).....			
Cream (15306).....			
Dark Gray (15390).....	2 55	2 45	2 30
Extra Light Gray (15477).....			
Green Stone (15387).....			
Light Gray (15384).....			
Venetian Red (15310).....			
White (15392).....	2 55	2 55	2 40

SASH COLORS

The painting of sash, metal and wood, around the manufacturing plant is a very serious one, requiring paints of special quality which has been thoroughly considered by our technical department offering these colors. The liquids used have very high water resisting quality, giving a very elastic film. Metal sash should be painted with this quality of paint as soon after erection of building as possible before corrosion starts. Otherwise, serious trouble occurs. It will dry to recoat in 24 hours.

	1c	5c	bbbl.
Red (15626).....	1 55	1 75	1 50
Moss Green (15494).....	2 00	1 90	1 75
Bottle Green (328).....	2 20	2 10	1 95
Black (301).....	2 20	2 10	1 85
Slate (409).....	2 15	2 05	1 95

PIPE LINE FINISHES

The safety first requirements in all manufacturing establishments has made it necessary for some States, also Insurance Companies, to take up the necessity of standardizing by colors various pipes in an establishment. In working out the above line, consideration was given first to clearness of tone of the colors used, thorough covering and quick drying, furnishing the greatest amount of elasticity in the paint as possible under these conditions. One coat will usually cover perfectly any pipe that is used and different colors are adopted to designate heat, cold, and different kinds of oils or liquids, making it possible to distinguish same at a glance.

	1c	5c	bbbl.
Buff (486).....	2 50	2 50	2 35
Bronze Yellow (15167).....	2 55	1 55	1 50
Gray (14251).....	2 00	1 50	1 75
Blue (6625).....	2 05	1 95	1 80
Red (18081).....	1 90	1 80	1 65
Green (6692).....	2 05	1 95	1 80
Black (6371).....	1 85	1 75	1 65
Aluminum (29).....	3 55	3 75	3 60

GAS RESISTING PAINT

Gas-Resisting Paint is especially adapted for a finish to be used in localities where any of the various forms of sulfur gases are generated or liberated. To meet the difficult painting conditions applying in such localities, we have developed this special line of paints, which will offer the maximum resistance to the effects of hydrogen-sulfide and similar gases. We recommend the use of these paints as a most satisfactory method to meet the conditions and far superior to ordinary paints for the purpose.

They can be used for interior as well as exterior surfaces.

	1s	5s	bbbl.
Colonial Yellow (615).....			
Yellow Ochre (616).....			
Pea Green (614).....			
Light Blue (619).....			
Venetian Red (613).....			
Maroon (612).....	2 75	2 85	2 50
Chocolate Brown (618).....			
Bottle Green (617).....			
Black (611).....			
White (610).....			
Light Gray (608).....			
Dark Gray (609).....			

STRUCTURAL PAINT

Structural Paints can be used on wood or metal buildings of any kind—roofs, bridges, tenement property, out-houses, fences, etc., either on metal, wood, brick, composition roofing or in fact on any of the many surfaces where paint such as this is the practical thing to use.

	1s	5s	bbbl.
Black (16770).....			
Red (16771).....			
Gray Slate (16772).....	1 35	1 25	1 10
Brown (16773).....			
Bronze Green (16774).....			

MINE, MILL AND FACTORY COLORS

Mine, Mill and Factory Colors are reasonable in price and are especially adapted for use on buildings adjacent to mines, mills or factories where good results are desired with two-coat work.

They flow freely and possess splendid wood-preservative qualities. They can be used for interior as well as exterior purposes.

	1s	5s	bbbl.
Black (395).....			
Bright Red (397).....			
Dark Green (415).....	1 80	1 70	1 55
Light Yellow (401).....			
Metallic Brown (399).....			
Drab (420).....			
Ivy Green (403).....			
Olive Green (402).....	2 35	2 25	2 10
Slate (411).....			
Colonial Yellow (403).....			
French Gray (414).....	2 45	2 35	2 20
Moss Green (413).....			
Orange Yellow (404).....			
White (5855).....	2 50	2 40	2 25

NON-CORRODIBLE ACID-RESISTING PAINT

A scientifically prepared coating for use upon metal surfaces subjected to the action of gases, acids or their fumes, salt water, ammonia, and other disintegrating agents.

Especially adapted for use upon smelters or buildings adjacent which are subjected to sulphuric acid fumes, or upon vinegar works, and similarly exposed locations.

Effective March 14, 1927

SHERWIN-WILLIAMS PRODUCTS

NON-CORRODIBLE ACID-RESISTING PAINT

(Continued)

It is unaffected by any of the destroying agents referred to, except after extended exposure, and upon properly cleaned surfaces, will promptly arrest and prevent further destruction of metal to which it is applied.

	1c	5c	bbis.
Black (0228).....	1 10	1 00	85

PREPARED WAX (Paste)

Used to produce a wax finish on moderate priced furniture and interior wood-work

	5c	25c
(58)	40	35

TAXITE

Paint and Varnish Remover.

	1c
(74)	1 75

PACKING-HOUSE FINISHES

This line can be used not only for the inside painting of creameries, packing houses and all buildings requiring up-to-date sanitation, inspection, but flat paints can also be used as Enamel Undercoaters and the gloss, particularly Rx 17550, for painting low priced toys.

	1c	5c	bbis.
2401 Packing-House Flat White (15870)	2 20	2 10	1 95
2402 Packing-House Flat White (16212)	2 20	2 10	1 95
2403 Packing-House Solar Flat White (15954)	2 25	2 15	2 00
2404 Packing-House Gloss White Enamel (17095)	3 20	3 10	2 95
2405 Special Packing-House Gloss White (17550)	2 45	2 35	2 25

PERFECT METHOD RED LEAD (Semi-Paste and Paste)

Do not stock.

	1c	5c	bbis.
Perfect Method Red Lead Paste (229)			
Perfect Method Red Lead Liquid (13878)		prices upon application	

ANTYDAMP FOUNDATION DAMP-PROOFING

This is used for damp-proofing foundations of buildings. The material should be applied directly to the exterior side of foundation walls below grade. Two coats should be applied. Allow 24 hours drying time between coats and at least 24 hours before back-grading after second coat has been applied. Covers approximately 25 to 40 square feet two coats to the gallon. Remains permanently elastic.

	1c	5c	bbis.
Black (01326)	1 10	1 00	85

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POLE PAINT

These paints are constructed to cover one coat with fairly good gloss, metal and wood poles. Trolley companies, gas and public service companies require paints of this kind. Quicker drying paints for poles on prominent streets will be manufactured when called for.

	1s	5s	bbis.
Black (18770)	1 35	1 28	1 10
Drab (5731)	2 00	1 90	1 75
Green, Dark (5858)	2 00	1 90	1 75
Green, Olive, D (5861)	2 00	1 90	1 75
Green, Olive, L (5859)	2 00	1 90	1 75
Red, Light (18771)	1 35	1 28	1 10
White (5855)	2 50	2 40	2 25

SMOKE-STACK PAINT

Recommended for stacks, boilers, stills, and superheated surfaces.

	1s	5s	bbis.
Salamander Black (01308)	1 25	1 15	1 00

STAINS

ACID STAINS

These stains are transparent stains that intensify and enhance the natural beauty of the woods on which they are applied. Primarily adapted for use on hardwoods but can also be used on softwoods. They are easily applied without streaking, and absolutely true to color. They will not fade.

	per gal. in ½ gal. bottles
Fumed Oak (14580)	2 40
Silver Gray (14602)	
Mahogany, Antique Brown (14590)	
Mahogany, Dark, Colonial (14538)	3 00
Mahogany, Light (14785)	

GOLDEN OAK STAIN

For staining interior wood work, furniture, etc. Reduced in proportion of one part of stain to six or eight parts of benzine or turpentine.

	5s	bbis.
(6436)	1 85	1 80

HANDCRAFT STAINS

These stains are for use in finishing finest interior woodwork, furniture, etc. They were primarily made for use on hardwoods, but are also adaptable for use on softwoods. These stains are individual in tone, dry without showing streaks or brush marks. They do not raise the grain of the wood, therefore require no sanding. Should be reduced with Handcraft Stain Reducer only.

	1s
Brown Oak (14509)	2 45
Fumed Oak (14510)	
Silver Gray (14521)	
Adam Brown (14522)	
Hog Oak (14502)	2 70
Early English Oak (14560)	
Walnut (14500)	
Weathered Oak (14507)	
Mahogany, Light (14508)	3 60
Mahogany, Extra Dark (14519)	
Handcraft Stain Reducer (02904)	1 65

SHERWIN-WILLIAMS PRODUCTS**OIL STAINS**

These stains are suitable for all types of new work. Made primarily for use on softwoods, but can also be used on hardwoods. Easy to apply, uniform in color and quality, dry properly without raising the grain of the wood. Are permanent and dependable.

	1a	3a	bbis.
Light Oak (30).....			
Dark Oak (34).....	1 66	1 55	1 40
Walnut (35).....			
Colonial Oak (85).....			
Mahogany, Brown (26).....			
Mahogany, Rich (27).....			
Mahogany, Light (37).....	2 15	2 05	1 90
Mahogany, Dark (33).....			
Silver Gray (94).....			
Moss Green (47).....	3 80	3 50	3 35

TRACTOR AND TRUCK FINISHES

For best results one coat of Primer and one coat of Enamel finished with one coat of Durable Implement Coach Varnish should be applied. These materials can be brushed or sprayed and will cover solid one coat over any reasonable surface and produce an elastic, tenacious film.

PRIMERS

	1a	3a	bbis.
Gray (18130).....	2 05	1 95	1 80
Pink (18437).....	1 95	1 85	1 70
Green (18438).....	1 95	1 85	1 70
Yellow (18439).....	1 95	1 85	1 70

ENAMELS

	1a	3a	bbis.
Drab (17669).....	2 15	2 05	1 90
Gray (14251).....	2 00	1 90	1 75
Yellow (6671).....	2 25	2 15	2 00
Red (18450).....	2 25	2 15	2 00
Green (6605).....	2 05	1 95	1 80
Black (6371).....	1 85	1 75	1 60
Aluminum (79).....	3 85	3 75	3 60

TRUNK PAINT (Semi-Paste)

For use on canvas-covered trunks and cases. Supplied in semi-paste form and will regularly stand reduction of from 50 per cent to 75 per cent with Sherwin-Williams Reducer No. 74, Rx 0974 or a turpentine substitute. Work easily, cover well and air dry over night.

	1a	3a	bbis.
9 Brown (15015).....	1 65	1 55	1 40
11 Brown (15004).....	1 60	1 50	1 35
14 Brown (15012).....	1 60	1 40	1 25
34 Brown (15034).....	1 50	1 40	1 25
32 Gray (15052).....	1 80	1 70	1 55
44 Green (15044).....	1 70	1 60	1 45
22 Olive (15011).....	1 70	1 60	1 45

WAGON MAKERS' SKEIN LEAD (Paste)

	100s	1/2-bbis. and bbis.
White (8).....	11 1/2	11

BARREL PAINT (Paste)

Mineral Red (20442).....	.....	.....	.....
Brown (20517).....	.....	.....	.....
Bright Red (20447).....	.....	.....	.....
Yellow (20449).....	.....	.....	.....
Green (20525).....	.....	.....	.....
Straw Color (3251).....	.....	.....	.....
Light Blue (20404).....	.....	.....	.....
Dark Blue (20410).....	.....	.....	.....
White (20512).....	.....	.....	.....

ENGINE ENAMEL

	10	50	500
Red (6665).....	2 40	2 30	2 15
Green (6665).....	2 40	2 30	2 30

FIRE PLUG RED

	10	50	500
(6665).....	3 40	2 30	2 15

SALAMANDER SMOKE-STACK BLACK

	10	50	500
(01308).....	1 25	1 10	1 00

LIQUID GRAPHITE PAINT

	10	50	500
(16333).....	1 70	1 00	1 40

EBONOL PIPE LINE PAINT

	10	50	500
(9727).....	75	60	45

Automobile
Insurance

MANUFACTURERS SALES DEPARTMENT

REPRESENTATIVE'S CONFIDENTIAL
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MOTOR CAR AND CARRIAGE UNDERCOATINGS

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date of invoice, or 30 days net



THE SHERWIN-WILLIAMS Co.

ADMINISTRATION OFFICES AND FACTORY, CLEVELAND, OHIO
SALES OFFICES AND WAREHOUSES IN PRINCIPAL CITIES

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PAINTS AND VARNISHES FOR AUTOMOBILES

UNDERCOATINGS, COLORS AND FINISHES

The Sherwin-Williams Company's Undercoatings, Ground Colors, Colors ground in Japan, Color Varnishes and Finishing Varnishes have an international reputation for quality, uniformity, dependability, economy and durability.

The foundation of the lines applicable to the automobile industry is based on a practical knowledge of every requirement, and the ingredients that enter into the formulae being carefully selected and of the finest quality.

The construction of this complete line of finishes is the result of careful study of every phase of raw material, quality and its relation to each ingredient used to produce the finished product. Great care has been used to produce a dependable finish, every coat being considered from the primary to the finishing coat.

Each individual product is so constructed that it will best accomplish the purpose for which it is intended and work perfectly with the products used in other steps in the finishing process. The relation of one coat to another has been carefully considered, each unit being treated separately, and the effect on the finished product considered.

Many theories have been advanced because they have not been based on quality. The standard of quality maintained by The Sherwin-Williams Company is the very best. Our aim and accomplishment in this respect is as near perfect as skill and resources are able to produce. It is for this reason that the quality of all materials for finishing automobiles is measured by the standard maintained by The Sherwin-Williams Company.

By the use of Sherwin-Williams Finishes, greatest uniformity results. Each product is made on exact formula, enforcing regularity and uniformity in the process of finishing—a far more dependable way to proceed than to guess at the formula quantity and quality.

As a result of development in modern-day methods of finishing, considerable time is saved. But this must not be done at the expense of quality or beauty of finish, and, therefore, the greatest care must be exercised in treating raw materials so that they may be used on the day's schedule, and retain the elasticity and durability so much desired.

Changes are constantly taking place in surface condition. Whether the surface is wood or metal, we are prepared to supply a material designed for the purpose. Dead or flat coats have been replaced by the elastic drying coats in either undercoatings or colors.

Mechanical science has played a part in designing machinery to grind to the finest degree. These materials produce a close knit surface, and a thorough mixing of raw materials results in elasticity. It is the smoothness of the base materials, the tone and shade of colors, the lustre of the finishing coats that completes the decorative scheme, each phase having its bearing.

The Sherwin-Williams Company protects you from trade abuses; our resources enable us to produce, treat and refine absolutely pure Linseed Oil, a most essential product in all paints and varnishes. Our Lead is corroded by the Old Dutch Process, assuring a right product of the best quality. We manufacture and are the source of supply for the finest toned Dry Colors—we produce the best quality Driers, Japanes and Varnishes. With our knowledge of paint and varnish manufacture, combined with these facilities, we are able to insure a right product for every purpose.

Sherwin-Williams Undercoatings are as practical in the custom and repair shops as in the factory of the large builder, and the material can be used to produce a high grade finish on new or old work with the greatest economy.

SCHEDULE FOR BODIES

METAL

Operation No. 1—The surface should be cleaned to remove all traces of rust, grease or dirt. Best method for cleaning cold rolled steel or black iron is by sand blast. If not equipped with sand blast, sand body thoroughly with No. 2 garnet paper and wash with clean naphtha. On aluminum bodies sand with No. 2 garnet paper, wash with a mixture of one part acetic acid and three parts water, then wash with clear water, dry thoroughly and apply coat of Red Oxide Metal Primer with spray or ox-hair brush. Air dry twenty-four hours or force dry six hours at 160 degrees Fahrenheit.

Operation No. 2—Apply one coat of Body Lead Coat or what is sometimes known as First Coat Rough Stuff, thinning material to brushing or spraying consistency with pure spirits of turpentine. This material will air dry in twenty-four hours or force dry in six hours at 160 degrees Fahrenheit. Furnished in paste form.

Operation No. 3—Putty glass any imperfections in the surface. Air dry twenty-four hours or force dry four hours at 160 degrees Fahrenheit.

Operation No. 4—Apply coat of Body Rough Stuff. This material is furnished in paste form. Thin to brushing 35 degrees Baume or spraying consistency to 52 degrees Heavy Baume. Air dry twenty-four hours or force dry two and a half hours at 160 degrees Fahrenheit.

SHERWIN-WILLIAMS PRODUCTS

Operation No. 5—Apply coat of Body Rough Stuff same as operation No. 4.

Operation No. 6—Apply coat of Body Rough Stuff same as operation No. 5.

Operation No. 7—Apply coat of Body Rough Stuff same as operation No. 6.

Operation No. 8—Apply guide coat. Air dry twenty-four hours or force dry two and a half hours at 160 degrees Fahrenheit. The guide coat is a shop made material. The following formula is a very good one:

3 pounds of Yellow Ochre, add $\frac{1}{2}$ pint of 36-hour Rubbing Varnish, $\frac{1}{4}$ pint Coach Japan and thin to a very thin consistency with pure spirits of turpentine.

Apply with bristle brush or spray. Where Sherwin-Williams Body Lead Coat is used it is not necessary to use this guide coat as the Body Lead Coat being dark brown in color acts as a guide coat.

Operation No. 9—Rub out. This operation is done by rubbing the Rough Stuff with a rubbing brick and water and for best results smooth up with block pumice stone. After rubbing let stand to dry four hours or force dry two hours at 160 degrees Fahrenheit.

Operation No. 10—Reputty and sand for color. Air dry putty three hours or force dry one hour at 160 degrees Fahrenheit.

Operation No. 11—Apply a coat of Ground Color or Color, thinning this material with pure spirits of turpentine. This material is to be applied with camel-hair brush or may be applied with spray. Air dry four hours or force dry one and a half hours at 160 degrees Fahrenheit.

Operation No. 12—Flow on a coat of Free Flowing Color Varnish of the shade desired. Sherwin-Williams Free Flowing Varnishes will air dry so they can be rubbed in 36 to 48 hours and can be force dried in twelve hours at 160 degrees Fahrenheit. These materials should be applied with a badger-hair brush. Color Varnishes may be prepared if desired by using Sherwin-Williams Quick Drying Colors and Clear Rubbing Varnish.

Operation No. 13—Moss, using curled hair.

Operation No. 14—Flow on second coat of Free Flowing Color Varnish, allowing same drying time as for operation No. 12.

Operation No. 15—Rub out with 3 F. powdered pumice-stone, hard felt and water. After body is rubbed be sure that all pumice-stone is thoroughly washed out around door hinges, mouldings, etc.

Operation No. 16—Apply third coat of Free Flowing Color Varnish, allowing same drying time as in operations Nos. 12 and 14. It is the custom in a great many shops to apply on this operation what is known among painters as a "split coat"; i. e., one part of Free Flowing Color Varnish and three parts of Clear Rubbing Varnish. With Sherwin-Williams Free Flowing Color Varnishes this is not required as these materials do not carry so much pigment that they will not rub to a smooth surface, therefore, during the rubbing operation if the man rubbing should cut through the top coat of Color Varnish it would not show a different color, which would be the case where a split coat is used. This is one reason that causes so many rejections in the majority of paint departments.

Operation No. 17—Rub out with 3 F. powdered pumice-stone, hard felt and water and where a high class finish is desired finish this rubbing operation by using soft felt and rotten stone.

Operation No. 18—Slush inside of body with Sherwin-Williams Inside Body Black.

Operation No. 19—Shellac around all mouldings, upholstering, door hinges and body joints. Air dry one hour.

Operation No. 20—Flow on Finishing Coat of Sherwin-Williams Pale Durable Body Varnish. This varnish is a pale, full bodied and free flowing varnish. It can be applied on the largest panels with ease. Dries free from dust in six to eight hours and dries hard in thirty-six to forty-eight hours.

CHASSIS

In nearly all shops the chassis parts are primed before assembling. If this is the case after the chassis has been assembled and road tested, it should be thoroughly cleaned of all grease and dirt. Most all automobile manufacturers do this cleaning by washing with steam but where this is not done the entire chassis should be sanded with emery cloth, sandpaper or wire brush and washed with clean naphtha. Be sure that all rust is removed from parts.

Operation No. 1—Prime all parts with Sherwin-Williams Chassis Primer covering the entire surface with a strata of primer that will prevent rust. Air dry twenty-four hours or force dry two hours at 175 degrees Fahrenheit. Where conveyor system is used this material can be used by increasing the degree of heat according to the speed of the conveyor. This material should be applied with a soft brush, or the most practical method of application today is with the spray.

Operation No. 2—Sand entire chassis.

SHERWIN-WILLIAMS PRODUCTS

Operation No. 3—Apply coat of Solid Covering Black Finishing Varnish. Apply with an ox-hair brush or by spray, which is most generally used today. This material will air dry in twenty-four hours or force dry in two and a half hours at 175 degrees Fahrenheit. Where conveyor system is used, the drying time can be reduced by increasing the heat according to the speed of the conveyor.

Where very high grade work is desired, oil sand parts of chassis that are exposed to view and apply second coat of Sherwin-Williams Black Finishing Varnish. Application and drying time the same as for Operation No. 3.

WOOD WHEELS

Operation No. 1—Apply a coat of Sherwin-Williams Wood Wheel Primer, brush or spray well into the grain of the wood and be careful that the entire wood surface is primed free from sags and runs. Air dry forty-eight hours or force dry twelve hours at 150 degrees Fahrenheit.

Operation No. 2—Putty Glaze any holes or imperfections in surface and apply one coat of Chassis and Wheel Sanding Surfacer. This material is furnished in paste form or liquid form and should be reduced with pure spirits of turpentine to a brushing or spraying consistency. Air dry twenty-four hours or force dry twelve hours at 150 degrees Fahrenheit.

Chassis and Wheel Sanding Surfacers are furnished in various shades and should be used of a proper shade that would make a desired ground color for the Color Varnish, thereby eliminating a coat of Quick Drying Color.

Operation No. 3—Sand with No. 0 sandpaper until a smooth surface is obtained, being careful not to cut through to the Primer.

Operation No. 4—Apply a coat of Free Flowing Color Varnish of the desired shade. This will air dry in eighteen to twenty-four hours and force dry in twelve hours at 150 degrees Fahrenheit.

Operation No. 5—Moss and stripes.

Operation No. 6—Apply a coat of Sherwin-Williams Chassis Finishing Varnish. This is a heavy pale durable varnish. This material can be applied with a badger-brush or by the spraying system. Should air dry for forty-eight hours before being assembled.

WIRE WHEELS

WHITE

The wheels should be cleaned free from grease, etc., by dipping in caustic soda solution and thoroughly rinsing in clean hot water.

Operation No. 1—Apply a coat of Sherwin-Williams White Wire Wheel Primer with spray. Be sure that material is sprayed evenly and all parts are covered solid. Will air dry in twenty-four hours or bake in two hours at 200 degrees Fahrenheit.

Operation No. 2—Apply a coat of Sherwin-Williams White Wire Wheel Enamel with spray. Care should be taken to apply this material very evenly so that when wheel is placed in oven it will not sag around spokes near the rim. This is a condition that causes a great number of rejections in the wheel department.

This material will air dry in twenty-four hours or can be baked one hour and a half at 175 degrees Fahrenheit. If possible, the wheel should then be allowed to air dry over night before being put in use.

SHORTER SYSTEM FOR FINISHING AUTOMOBILE BODIES

Many automobile manufacturers and custom shops have adopted a shorter method of finishing and refinishing in order to keep the car out of operation for the shortest possible time, and while the time required for the finishing on the following schedule is somewhat shorter, we offer this material and recommendations for finishing only after carefully studying the durability and we would direct attention to the selection of material as representing high grade products.

The principal difference in the schedule compared with our regular high grade method is the use of Sanding Surfacers (Sur-Fas-Rite) Coats on bodies instead of Rough Stuff. By the use of Sanding Surfacers, we not only use less material as a surfacing coat, but reduce the cost, as the sanding operation is not as expensive as the water rubbing out of Rough Stuff.

In designing our Body Sanding Surfacers (Sur-Fas-Rite) we had in mind that the material when surfaced must be close knit and elastic to avoid the possibility of the color and finishing coats sinking in, and with the smooth surface presented in the manufacture of metal bodies, makes it possible to use the Sanding Surfacers.

Sur-Fas-Rite is the trade name these Sanding Surfacers are sold under. They are supplied in nine different shades in semi-paste consistency, and can be used for knifing or thinned with pure spirits of turpentine to brushing or spraying consistency.

SHERWIN-WILLIAMS PRODUCTS

Operation No. 1—Clean the metal by sanding with No. 1 sandpaper and wash with naphtha or sandblast if possible and apply a coat of Oxide Metal Primer with an ox-hair brush or spray. Air dry twenty-four hours or force dry six hours at 160 degrees Fahrenheit.

Operation No. 2—Glaze the entire body with Sur-Fas-Rite, using 3 1/4 inch glazing knife. Air dry twelve hours or force dry three hours at 160 degrees Fahrenheit.

Operation No. 3—Apply a coat of Sur-Fas-Rite with ox-hair brush or spray, thinning to the proper consistency with pure spirits of turpentine. Air dry twelve hours or force dry two hours at 160 degrees Fahrenheit.

Operation No. 4—Sand to a surface with No. 1/2 sandpaper, finishing up with No. 0 sandpaper so all fine scratches will be removed. Be very careful to sand down closely, avoiding an extra heavy strata of Sur-Fas-Rite, knife marks, etc.

Operation No. 5—Apply Ground Color with camel-hair brush or spray. Air dry four hours or force dry one and a half hours at 160 degrees Fahrenheit.

Operation No. 6—Apply Free Flowing Color Varnish with badger brush. Air dry twenty-four hours or force dry twelve hours at 160 degrees Fahrenheit.

Operation No. 7—Moss with curled hair and apply second coat of Color Varnish. Application and drying time the same as operation No. 6.

Operation No. 8—Rub with 3 F. powdered pumice-stone and water. Be sure to clean pumice-stone from around mouldings, etc.

Operation No. 9—Flow on a coat of Sherwin-Williams Pale Durable Body Varnish, allowing not less than thirty-six hours to dry.

In factories where a temperature of 80 to 90 degrees Fahrenheit is kept in their finishing room, this varnish will dry free from dust in six hours and can be assembled after drying over night.

MOTOR CAR AND CARRIAGE UNDERCOATINGS

METAL BODY PRIMERS

(Liquid)

Are recommended for metal surfaces only, and should not be offered as Wood Primers. Their elastic and tenacious qualities make them best for the purpose, price considered.

Primers are the beginning of all motor car finishes, either high grade or other-wise. It is essential that the Primer be up to standard in all respects. It is better to use a high grade Primer so that the final finish will be satisfactory; otherwise, if the Primer is not correct in every detail, no matter how good the succeeding coats may be, the ultimate finish is sure to suffer.

METAL BODY PRIMER DARK (Rx 18457)

This primer is especially designed for use on aluminum bodies, but may be used with equally satisfactory results on other metal surfaces. It air dries in thirty-six to forty-eight hours and may be force dried in ten to twelve hours at 120 degrees Fahrenheit for recoating. Supplied ready for brush or spray.

Qts.	1s	5s
3 75	3 35	3 25

RED OXIDE METAL BODY PRIMER No. 54 (Rx 14454)

This material is to be used on either aluminum or steel and is also satisfactory for chassis. Will air dry in twenty-four hours and force dry in six hours at 160 degrees Fahrenheit. Supplied ready for brush or spray.

Qts.	1s	5s
2 55	2 15	2 05

RED OXIDE METAL BODY PRIMER BAKING No. 64

(Rx 18064)

Recommended for hoods, metal bodies and all metal parts where the degree of heat and time can be secured. Should be baked at 160 degrees Fahrenheit for six hours. Where time will allow, it will air dry in three days for resurfacing. Supplied ready for brush. Should be reduced 10 per cent for spray.

Qts.	1s	5s
2 75	2 35	2 25

WOOD PRIMERS

DARK GRAY BODY PRIMER (Rx 6275)

(Wood and Composition Board)

This material is furnished in liquid form ready for brushing or spraying. It also gives entire satisfaction when used on composition board such as agasote or vearsote, which is coming into general use. Will air dry in forty-eight hours and may be force dried in twelve hours at 130 degrees Fahrenheit.

Qts.	1s	5s
3 00	2 60	2 50

DARK GRAY CHASSIS PRIMER (Rx 17160)

This primer is recommended for chassis work only. Air dries in twenty-four hours and force dries at 130 degrees Fahrenheit in four hours. Supplied ready for brush or spray.

Qts.	1s	5s
2 55	2 15	2 05

BLACK CHASSIS PRIMER (Rx 18050)

Furnished in liquid form ready for brushing or spraying. Will air dry in twenty-four hours and where an economical primer is desired, we recommend this.

Qts.	1s	5s
2 00	1 00	1 00

M&D2 (E) M35

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SHERWIN-WILLIAMS PRODUCTS

WHEEL PRIMER**DARK GRAY WHEEL PRIMER (Rx 6538)**

This is furnished in brushing and spraying consistency. Will air dry in forty-eight hours. Recommended for *wheels only*.

Qts.	1s	5s
2 60	2 10	2 00

GEAR PRIMERS

(Liquid)

COMBINATION GEAR PRIMER, DARK GRAY

(Wood and Metal) (Rx 14987)

This material is furnished in liquid form satisfactory for brushing and spraying. Will air dry in twenty-four hours. Recommended for buggy gear work and wheels.

Qts.	1s	5s
3 25	2 85	2 75

BODY UNDERCOATS

(Paste—Rubbing)

BODY LEAD COAT RED (Rx 8762)

Furnished in heavy consistency. Should be reduced with turpentine to 50 degrees Baume for spraying and for brush work to 55 degrees Baume. Air dries in twenty-four hours and force dries in six hours at 160 degrees Fahrenheit. Body Lead Coat being red in color acts as a guide coat so that in rubbing through the Rough Stuff the rubber knows he has gone his limit.

5s	25s	drums
20	16	17

BODY ROUGH STUFF DARK No. 76 (Rx 8776)

For spray work material should be reduced with turpentine to 52 degrees Baume and for brush work to 55 degrees Baume. No more than two coats per day should be recommended if material is air dried. Can be force dried in 2 1/4 hours at 160 degrees Fahrenheit. This is the highest grade of Rough Stuff and by its use a very close knit surface is obtained.

5s	25s	drums
19	17	16

BODY ROUGH STUFF DARK No. 27 (Rx 8927)

For spray work material should be reduced with turpentine to 53 degrees Baume, for brush work to 56 degrees Baume. Not more than two coats per day should be recommended when material is air dried. Can be force dried in 2 1/4 hours at 160 degrees Fahrenheit. This material is preferred by many of the largest body manufacturers.

5s	25s	drums
18	16	15

AUTO BODY ROUGH STUFF DARK (Semi-Paste) (Rx 8578)

For spray work material should be reduced with turpentine to 50 degrees Baume, for brush work to 55 degrees. No more than two coats per day should be recommended when material is air dried. Can be force dried in two hours at 150 degrees Fahrenheit.

Qts.	1s	5s
3 15	2 75	2 65

BODY LEAD COAT RED (Liquid) (Rx 7445)

Will stand a small amount of reduction with turpentine for brush and spray work. Air dries in twenty-four hours and force dries in four hours at 150 degrees Fahrenheit. This acts as a guide coat in rubbing.

Qts.	1s	5s
2 35	2 95	2 85

SHERWIN-WILLIAMS PRODUCTS

GLAZING PUTTY

(Paste)

GLAZING PUTTY DARK GRAY (Rx 25516)

Air dries in twenty-four hours and force dries in four and one-half hours at 150 degrees Fahrenheit. Can be reduced with turpentine to brushing or spraying consistency and used as a sanding filler. When so reduced it will air dry in six to eight hours and force dry in two hours at 150 degrees Fahrenheit.

Net Weight

1s	5s	25s
28	23	21

GLAZING PUTTY DARK GRAY (Rx 25534)

Air dries in twenty-four hours, force dries in four and one-half hours at 150 degrees. This material cannot be reduced and used as a sanding Filler.

Net Weight

1s	5s	25s
28	23	21

MISCELLANEOUS

HARD PUTTY (Rx 25530)

This material will be satisfactory for puttying all nail holes, etc. Air dries in twenty-four hours.

Net Weight

1s	5s	25s
28	23	21

TRANSMISSION RED (Rx 18142)

This material is made with a shellac base and is recommended as a sealer to seal all pores in aluminum transmission cases. It is oil, gasoline and water resisting. Dries in fifteen to twenty minutes. Ready for use.

Qts.	1s	5s	bbis.
2 60	2 20	2 10	1 05

RIM AND GASKET CEMENT (Rx 18471)

For gaskets, rims, radiators, etc. where a quick drying, adhesive product is desired for sticking purposes. Finds ready sale to garages, automobile manufacturers, accessory shops, brush manufacturers, etc.

Qts.	1s	5s	bbis.
2 65	2 15	2 05	1 90

INSIDE BODY SLUSH BLACK (Rx 17392)

This product is used for painting the inside of bodies, which are given a coat of black. For brushing will reduce 25 per cent, for spraying 33 1/4 per cent.

1s	5s	bbis.
1 20	1 10	95

INSIDE BODY SLUSH No. 18 (Rx 23641)

1s	5s	bbis.
1 10	1 00	85

RADIATOR BLACK (Rx 18131)

This material is used for spraying the honeycomb in radiators, which is given a coat of black. Stands a reduction of 100 per cent with S-W Reducer 0974 or naphtha, drying in one-half hour, producing a semi-gloss finish.

1s	5s	bbis.
1 20	1 10	95

SHERWIN-WILLIAMS PRODUCTS

AUTO TOP DRESSING BLACK (Rt 637)

A dense black dressing for renewing finish on mohair, pantsuits and similar tops, side curtains and upholstery of automobiles. On mohair it dries with a dull black finish, while on leather, pantsuits and other imitation leathers it dries with an egg-shell gloss. Dries perfectly hard in three or four hours; is easy to apply and does not show laps or streaks.

1c	5c	bbia
3 46	3 35	3 26

GEAR FILLERS

Used for the purpose of filling the pores of wood wheels the same as Sanding Surfacers are used for surfacing. Gear Fillers are ground much finer than Sanding Surfacers. They produce a smooth, elastic surface ready to receive the Ground Coat or Free Flowing Color Varnish. Ground coats are very seldom used on wheels. The Gear Filler coat takes its place and Free Flowing Color Varnish can be applied directly over it after the Gear Filler has been lightly sanded.

Use camel hair brush to apply Gear Fillers, or they may be sprayed. Air dry in twenty-four hours or force dry in twelve hours at 150 degrees Fahrenheit.

	25c	drums
Cream (8767).....	22	18
Yellow (8415).....	22	18
Gray (8474).....	22	18
Red, Light (8498).....	22	18
Red, Dark (8737).....	22	18
Maroon (8505).....	22	18
Black (25541).....	22	18

SUR-FAS-RITE

Many automobile manufacturers and custom shops have adopted a shorter method of finishing and refinishing in order to keep the car out of operation only for the shortest possible time.

The principal difference in the schedule compared with our regular high grade method is the use of Sur-Fas-Rite (Sanding Surfacers) instead of Rough Stuff.

Sur-Fas-Rite can be applied either directly over the primer or over a checked surface for the purpose of filling, so that when sanded out it will give a surface that is smooth, close knit and elastic to avoid the possibility of the color and finishing coats sinking in.

Sur-Fas-Rite is supplied in semi-paste form and can be used for knife or thinned with pure spirits of turpentine to brushing or spraying consistency. At least two or three coats of Sur-Fas-Rite should be applied to produce a good surface, and only the last coat should be sanded.

Sur-Fas-Rite should be allowed to air dry twelve hours or force dry two hours at 160 degrees Fahrenheit for recoating or sanding.

For knife use 3 1/4 inch glazing knife. For brushing use an ox-hair brush. Sand to a surface with No. 1/2 sandpaper, finishing with No. 60 sandpaper so all fine scratches will be removed.

	Qts.	1c
Light Gray (9074).....	3 66	3 26
Dark Gray (9073).....	3 66	3 26
Green (18409).....	3 66	3 26
Maroon (25550).....	3 90	3 60
Yellow (25540).....	3 66	3 26
Red (25535).....	3 90	3 60
Blue (25539).....	3 90	3 60
Cream (25548).....	3 66	3 26
White (25538).....	3 66	3 26

DE LUXE ENAMEL SYSTEM

Realizing that the demand for an enamel system is steadily increasing, we have developed and perfected our De Luxe Enamel System, consisting of Primer, Glass Putty, Intermediate Coats and Finishing Enamel. The materials developed represent the most satisfactory quality in every way, producing a most durable, tough and elastic finish.

DE LUXE PRIMERS

These primers are furnished in various shades to conform with the Enamel and act as a suitable ground coat. They are very excellent quality, will cling to the metal, possess excellent durability and tenacity. They air dry in thirty-six to forty-eight hours and may be force dried in ten to twelve hours at 120 degrees Fahrenheit. They are ready for brush or spray application. All shades.

Qts.	1c	5c
3 00	2 60	2 60

CHEMICAL & TECHNICAL SALES DEPARTMENT

June 20, 1925

Errors in New QD Price List.

Please make the following corrections in the New QD Price List inserts which you just received:

The Rex number of Torpedo Gray should be 8919 rather than 8819 as printed.

Cadillac Blue should be 25147 instead of 25146.

Emerald Green Dark should be 25730 rather than 25930.

Yours very truly,

J. H. Hason
Manager

Price List List

SHERWIN-WILLIAMS PRODUCTS

DE LUXE GLAZING PUTTY

These are also supplied in suitable shades and are furnished in the same quality as our other listed Glazing Putties. They are very finely ground, producing a close knit surface, holding out the subsequent coats beautifully. They air dry in twenty-four hours and may be force dried in eight to ten hours at 120 degrees Fahrenheit. All shades.

25	100-lb. kegs
22	20

DE LUXE INTERMEDIATE VELVET ENAMEL

Velvet Enamels will be furnished in the same shades and quality as the Finishing Enamel with the exception that they will dry with a velvet finish and should be oil-sanded slightly for application of the finishing coat. These Velvet Enamels are furnished in brushing or floccing consistency. When ordering, please specify method of application. All shades.

1
5 00

DE LUXE FINISHING ENAMEL

These Enamels represent the highest quality of Finishing Enamel it is possible to develop. The composition of these Enamels is such as to make them tough, elastic and durable. They produce a full, rich, high gloss finish. DeLuxe Finishing Enamels are also furnished in brushing or floccing consistency and the method of application should be specified when ordering these goods. Especial attention was paid to the flowing qualities of these Enamels so that excellent results are secured when they are flocced.

	1
Holland Blue.....	5 00
Chesterfield Blue.....	5 00
Roxbury Vermilion.....	5 00
Colonial Cream.....	5 00
Perfection Yellow.....	5 00
Aurora Yellow.....	5 00
Buckeye Brown.....	5 00
Everglade Green.....	5 00
Tyrol Green.....	5 00
Fawn Gray.....	5 00
White.....	5 00
Cardinal Red.....	5 00
Taupe Gray.....	5 00
Rich Wine.....	5 00
English Surrey Green.....	5 00
Biege Brown.....	5 00

SHERWIN-WILLIAMS PRODUCTS

MOTOR CAR AND CARRIAGE UNDERCOATINGS

QUICK DRYING COACH COLORS

Ground in Japan

The Quick Drying Colors listed herewith and represented on the color card as well as the celluloid set, represent the color when the color ground in Japan is made into a color varnish. The color effect as represented, does not match when used as a flat color and varnished over.

BLACKS

	Price per pound So. P.C.
Ivory Drop XXX (121).....	42
English Coach A (175).....	42
Chemically Refined Lamp (179).....	33
Ivory Drop Black (120).....	33
Special Black (119).....	31
Special Lamp Black (8428).....	28

REDS

F. F. Colors to match	Q. D. Ground	
English Vermilion L (145-L).....	7815	4003
English Vermilion D (145-D).....	not offered	4003
Royal Durbar Red L (8272).....	7033	25074
Royal Durbar Red D (8190).....	6755	25074
Roxbury Red (4187).....	not offered	25074
Royal Durbar Red M (8273).....	7033	25074
Mohawk Red D (4056).....	6956	25074
Spartan Red L (4000).....	not offered	25074
Spartan Red D (8003).....	not offered	25074
Permanent Vermilion (4044).....	not offered	4003
Mohawk Red L (4360).....	6758	25074
Fleming Vermilion (25718).....	not offered	4003
English Rose Pink (170).....	not offered	4017
American Vermilion L (242).....	not offered	4003
Ibis Red (8001).....	18197	4003
American Vermilion D (243).....	not offered	4003
Carmonine Red D (8592).....	not offered	25074
Carmonine Red L (8148).....	14260	25074
Tuscan Red (125).....	not offered	25074
Premier Non-Fading Red D (8294).....	not offered	25074
Premier Non-Fading Red L (8057).....	not offered	25074
Royal Venetian Red (126).....	not offered	25074

WINES, MAROONS AND LAKES

Rose Lake (4011).....	8884	4017	88
Carmin Lake (25707).....	not offered	4017	76
Rich Wine (25705).....	not offered	8818	76
Tuscan Maroon (25706).....	not offered	4017	70
Burgundy Wine L (25219).....	not offered	8818	70
Wine Color B (248).....	18196	8818	65
Carmin Maroon (4009).....	7846	4017	70
Burgundy Wine D (25221).....	not offered	8818	70
Italian Carmin Lake (25702).....	not offered	8818	65
Wine Color D (250).....	not offered	8818	60
Burgundy Wine M (25220).....	not offered	8818	70
Claret Wine (4209).....	not offered	4017	60
Victoria Wine Lake (25708).....	not offered	8818	60

SHERWIN-WILLIAMS PRODUCTS

GROUNDS

	Price per pound 5c Pcs.
Carmine No. 17 (4017).....	50
Blue No. 47 (25703).....	45
Blue No. 63 (2763).....	40
Green No. 34 (134-M).....	55
Blue No. 13 (2913).....	40
Blue No. 24 (2924).....	40
Blue L. No. 31 (2431).....	40
Red D. No. 74 (25074).....	40
Scarlet No. 74 (25074).....	40
Blue Special No. 18 (2818).....	40
Blue No. 42 (25242).....	40
Vermilion No. 43 (4003).....	40
Red L. No. 43 (4003).....	40

GRAYS

	F. F. Colors to match	Q. D. Ground	
Arabian Gray (2911).....	7853		42
Mercedes Gray (25733).....	not offered		45
Quaker Gray (25734).....	not offered		45
Maltese Gray (25731).....	not offered		45
Automobile Gray D. (2508).....	7851		43
Silver Gray (2554).....	not offered		45
Sage Gray D. (25735).....	not offered		45
Torpedo Gray (2919).....	7847		45
Gray Green L. (25737).....	not offered		44
Sage Gray L. (25735).....	not offered		45
Automobile Drab (25732).....	not offered		40
Fawn Gray (1416).....	18017		44
Brown Gray (25706).....	not offered		45
Stone Gray (2509).....	not offered		43
Pearl Gray (2510).....	7614		43
Roaddust Gray (25192).....	18217		43
Armour Gray (1421).....	not offered		43
Amphole Gray (25193).....	18194		40

BLUES

Radium Violet (25723).....	not offered	4017	55
Westchester Blue L. (25714).....	not offered	25709	70
Violet Purple (25722).....	not offered	4017	55
Violet Blue (25704).....	not offered	2763	55
Cobalt Blue (244).....	not offered	2763	70
Ultramarine Blue (148).....	not offered	2818	55
Prussian Blue (147).....	not offered	2818	70
Chinese Blue (147).....	not offered	2818	70
Cygni Blue L. (25715).....	not offered	241	55
Lampblack Blue (2559).....	not offered	2818	55
Capitane Blue (25147).....	not offered	2513	55
Metall Blue (25168).....	not offered	7848	55
Cleveland Blue L. (25720).....	not offered	2924	55
Copenhagen Blue (2523).....	not offered	2924	55
English Violet (25721).....	not offered	25721	55
Westchester Blue M. (25713).....	not offered	25248	70
Westchester Blue D. (25713).....	not offered	25248	70
Cygni Blue M. (25716).....	not offered	25248	55
Cygni Blue D. (25717).....	not offered	25248	55
Normandy Blue (25195).....	not offered	18192	55
Peacock Blue (25129).....	not offered	17858	55
Imperial Blue D. (25710).....	not offered	2763	55
Blue Devil Blue (25709).....	not offered	25711	55
Sapphire Blue D. (25146).....	not offered	25703	55
Cleveland Blue D. (25719).....	not offered	25248	55
Rolls Royce Blue (25182).....	not offered	2924	55
Sapphire Blue L. (25713).....	not offered	25709	55
Yale Blue D. (2609).....	not offered	7618	55
Peacock Blue (25724).....	not offered	25248	55
Crystal Blue (25194).....	not offered	241	55
Azure Blue (241).....	not offered	18170	55
Yale Blue L. (4456).....	not offered	241	55

SHERWIN-WILLIAMS PRODUCTS

BROWNS

	F. F. colors to match	Q. D. Ground	Price per pound 50 Pcs.
Golden Tan (4887)	7885	.....	45
Arabian Tan D. (25742)	not offered	.....	45
Beaver Brown L. (25740)	not offered	.....	45
Arabian Tan L. (25741)	not offered	.....	45
Raw Sienna (124)	not offered	.....	38
Quaker Brown (4881)	not offered	.....	38
Golden Brown (4856)	7885	.....	40
Burnt Sienna (129)	not offered	.....	38
Hoffman Brown (4200)	8897	.....	38
Beaver Brown D. (25708)	not offered	.....	45
Van Dyke Brown (132)	not offered	.....	45
Taupe Brown (8842)	not offered	.....	40
Raw Umber (130)	not offered	.....	34
Biege Brown (25247)	not offered	.....	40
Burnt Umber (131)	not offered	.....	34
Portland Amber (4109)	not offered	.....	37

GREENS

Thistle Green (25726)	not offered	.....	80
Acacia Green (25725)	not offered	.....	76
Milori Green D. (135-D)	7822	.....	65
Sphinx Green D. (25728)	not offered	.....	70
Milori Green M. (135-M)	not offered	.....	65
Milori Green L. (135-L)	18146	.....	65
Emerald Green L. (25729)	not offered	.....	66
Sphinx Green L. (25727)	not offered	.....	70
Cactus Green (25189)	18040	.....	60
Emerald Green D. (25730)	not offered	.....	65
Apple Green Lt. (4384)	18190	.....	60
Extra Coach Green D. (134-D)	18180	.....	60
Extra Coach Green L. (134-L)	7621	.....	60
English Surrey Green L. (4794)	not offered	.....	60
Palmetto Green (4712)	17594	.....	65
English Surrey Green D. (4716)	not offered	.....	60
Extra Coach Green M. (134-M)	6997	.....	60
Apple Green D. (4387)	7619	.....	60
Cadillac Green (1325)	6994	.....	45
Brewster Green M. (4305)	7065	.....	47
Brewster Green L. (4620)	7003	.....	47
Nonpareil Green (4620)	7003	.....	45
Rockaway Green (8151)	7824	.....	45
Panama Green (25188)	not offered	.....	45
Brewster Green D. (4622)	6760	.....	47
Olivet Green (4390)	not offered	.....	45

WHITES

French Zinc (4369)	.....	.....	44
Flake White (144)	.....	.....	44
French Zinc in Varnish (4681)	.....	.....	44
Hearse White (255)	.....	.....	44
Ivory (4388)	.....	.....	44
White Lead (4602)	.....	.....	40

YELLOWS AND CREAMS

Dark Orange (138-DO)	not offered	.....	45
Orange (138-O)	not offered	.....	45
Automobile Yellow D. (138-D)	not offered	.....	45
Automobile Yellow M. (138-M)	7017	.....	45
Chrome Yellow M. (138-M)	7017	.....	45
Chrome Yellow L. (138-L)	7016	.....	45
Automobile Yellow L. (138-L)	7016	.....	44
French Ivory (25739)	not offered	.....	44
Jersey Cream (25738)	not offered	.....	44
Cream Color (4230)	7843	.....	44
Imitation Gold (177)	not offered	.....	38
Pneumatic Yellow (4567)	7841	.....	40
Metropolitan Cream (4744)	not offered	.....	40
Naples Yellow (140)	not offered	.....	45
Yellow Ochre (1343)	not offered	.....	36
Golden Ochre (142)	not offered	.....	35

SHERWIN-WILLIAMS PRODUCTS

STRIPING COLORS

	F. P. colors to match	Price each net	Price per pound do Pc.
English Vermilion Pale (145-L)		40	70
Extra Permanent Vermilion (4044)		50	90
Royal Durbar Red. M. (8273)		50	90
Imitation Gold (177)		40	70
Liming White (8995)		40	70
Striping Blue (241)		30	55
Chrome Yellow Lemon (135-L)		25	45
Chrome Yellow M. (135-M)		25	45
Chrome Yellow Orange (135-O)		25	45
Chrome Yellow Dark Orange (135-DO)		25	45

Q. D. PRESSES

Q. D. Presses		each	2 25
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00		Acrylic Gray (1810)
00		Red Dust Gray (1811)
00		Midnight Gray (1812)
00		Black Gray (1813)
00	.....	Dark Gray (1814)
00	.....	Medium Gray (1815)
00	.....	Light Gray (1816)
00	.....	White Gray (1817)
00	.....	Yellow Gray (1818)
00	.....	Orange Gray (1819)
00	.....	Green Gray (1820)
00	.....	Blue Gray (1821)
00	.....	Purple Gray (1822)
00	.....	Pink Gray (1823)
00	.....	Brown Gray (1824)
00	.....	Black Gray (1825)

00	.....	Acrylic Gray (1810)
00	.....	Red Dust Gray (1811)
00	.....	Midnight Gray (1812)
00	.....	Black Gray (1813)
00	.....	Dark Gray (1814)
00	.....	Medium Gray (1815)
00	.....	Light Gray (1816)
00	.....	White Gray (1817)
00	.....	Yellow Gray (1818)
00	.....	Orange Gray (1819)
00	.....	Green Gray (1820)
00	.....	Blue Gray (1821)
00	.....	Purple Gray (1822)
00	.....	Pink Gray (1823)
00	.....	Brown Gray (1824)
00	.....	Black Gray (1825)

MSD 2 M25

SHERWIN-WILLIAMS PRODUCTS

FREE FLOWING COLOR VARNISHES

Free Flowing Color Varnishes are made with color and rubbing varnish. They dry to re-coat in 24 to 48 hours, depending upon the temperature and humidity in the room in which they are applied. Color Varnishes should always be applied in room with temperature not under sixty-eight degrees Fahrenheit. Where force drying is used, temperature of dry film should be obtained and all other information pertaining to the manner of finishing should be sent to the Cleveland office before making recommendations. Color Varnishes are rubbed with pumice-stone and water and finished with clear finishing varnish for protection against the elements of the weather. They should never be recommended as a finishing coat.

NOTE—Free Flowing Reds, Wines and Blues are more transparent than other Free Flowing Colors and for this reason we recommend for use under them Quick Drying Ground Colors as shown opposite each shade.

Ground Colors are better covering than the regular Quick Drying Colors.

Free Flowing Grays, Browns, Yellows and Greens do not need a special Ground Color, as they are solid covering Colors, and the Quick Drying Color shown opposite each shade will be satisfactory when used as the Ground Color.

The Quick Drying Colors shown to match in shade the Free Flowing Colors, are recommended for use in making Color Varnishes by the addition of Clear Rubbing Varnish.

Also supplied in quart penny lever cans at 40 cents per gallon higher.

REDS

	Q. D. Ground Color	Q. D. Color to match	Price per gallon in
Vermilion (7045).....	4003	not offered	6 75
Royal Durbur Red, L (7033).....	25074	8172	6 25
Royal Durbur Red, D (6735).....	25075	8190	4 75
Carmine, L (14260).....	25074	8148	4 25
Ibis Red (18197).....	4003	8001	4 75
Turkish Crescent Red (6752).....	25074	4306	5 75
Dark Carmine (6890).....	4017	not offered	4 25
National Red, L (7865).....	25074	not offered	5 00
National Red, D (7866).....	25074	not offered	5 25
Dragon Red, D (14085).....	25074	not offered	4 00
Jordan Carmine, Maroon (18241).....	8218	not offered	5 75

WINES

Rose Lake (7821).....	8218	4011	4 25
Scarlet Carmine (7014).....	4017	not offered	4 25
Carmine Maroon (7846).....	4017	4009	4 25
Lake Wine (6884).....	8218	4011	4 25
Wine Color, B (18196).....	4017	348	4 25

Do not stock. These colors should be ordered for direct shipment from the factory.

GRAYS

Automobile Gray, D (7851).....	.....	8308	4 00
Fawn Gray (18017).....	.....	1416	4 00
Gunmetal Gray (18010).....	.....	25172	4 00
Silver Gray (7847).....	.....	8358	4 00
Arabian Gray (7853).....	.....	8911	4 00
Maltese Gray (18195).....	.....	25197	4 00
Taupe Gray (17616).....	.....	8042	4 00
Automobile Gray, L (7613).....	.....	8291	4 00
Confederate Gray (18014).....	.....	25178	4 00
Elephant Gray (18010).....	.....	25166	4 00
Mercedes Gray (7854).....	.....	8918	4 00
Road Dust Gray (18217).....	.....	25192	4 00
Antelope Gray (18194).....	.....	25193	4 00

BLUES

Wash Delft Blue (17858).....	8913	25199	4 25
Sapphire Blue, D (17595).....	8924	8146	4 25
Mercur Blue (7848).....	8913	25168	4 25
Limonine Blue (7856).....	8913	8059	4 25
Cadillac Blue (17593).....	8913	24147	4 25
Azure Blue (18170).....	241	241	4 25
Silk Blue (18193).....	25196	25196	4 25
Coch Painters' Blue (6894).....	8931	1406	4 25
Crystal Blue (18191).....	25194	25194	4 25
Normandy Blue (18192).....	25195	25195	4 25

SHERWIN-WILLIAMS PRODUCTS

FREE FLOWING COLOR VARNISHES

BROWNS

	Q. D. color to match	Price per gallon 1s
Golden Brown (7885).....	8456	3 50
Circassian (18010).....	25191	3 50
Khaki Brown (18016).....	25169	3 50
London Smoke (7874).....	4200	3 50
Beaver Brown (18013).....	25163	3 50
Pigskin Tan (18012).....	8865	3 50
Olive Brown (18015).....	4120	3 50
Moleskin Tan (18240).....	25184	3 50
Olive Drab (18010).....	25167	3 50

YELLOWS

Virginia Cream (7841).....	4567	4 00
Canary Yellow (7836).....	4262	4 00
Chrome Yellow, M (7017).....	138 M	4 00

GREENS

Extra Coach Green, D (18180).....	134 D	3 50
Extra Coach Green, M (6997).....	134 M	4 75
Palmetto Green (17594).....	4712	3 75
Peacock Green (6718).....	not offered	3 50
Cadillac Green (6994).....	1525	3 75
Brewster Green, D (6760).....	4622	3 75
English Brewster Green (7839).....	8863	3 50
Nealad Green (18146).....	135 L	4 75
Cactus Green (18040).....	25189	4 75
Brewster Green, L (7003).....	4620	3 75
Acacia Green (17547).....	4616	4 25
Peacock Green (18011).....	25177	3 75
Lizard Green (18190).....	4384	3 75

BLACK RUBBING VARNISHES

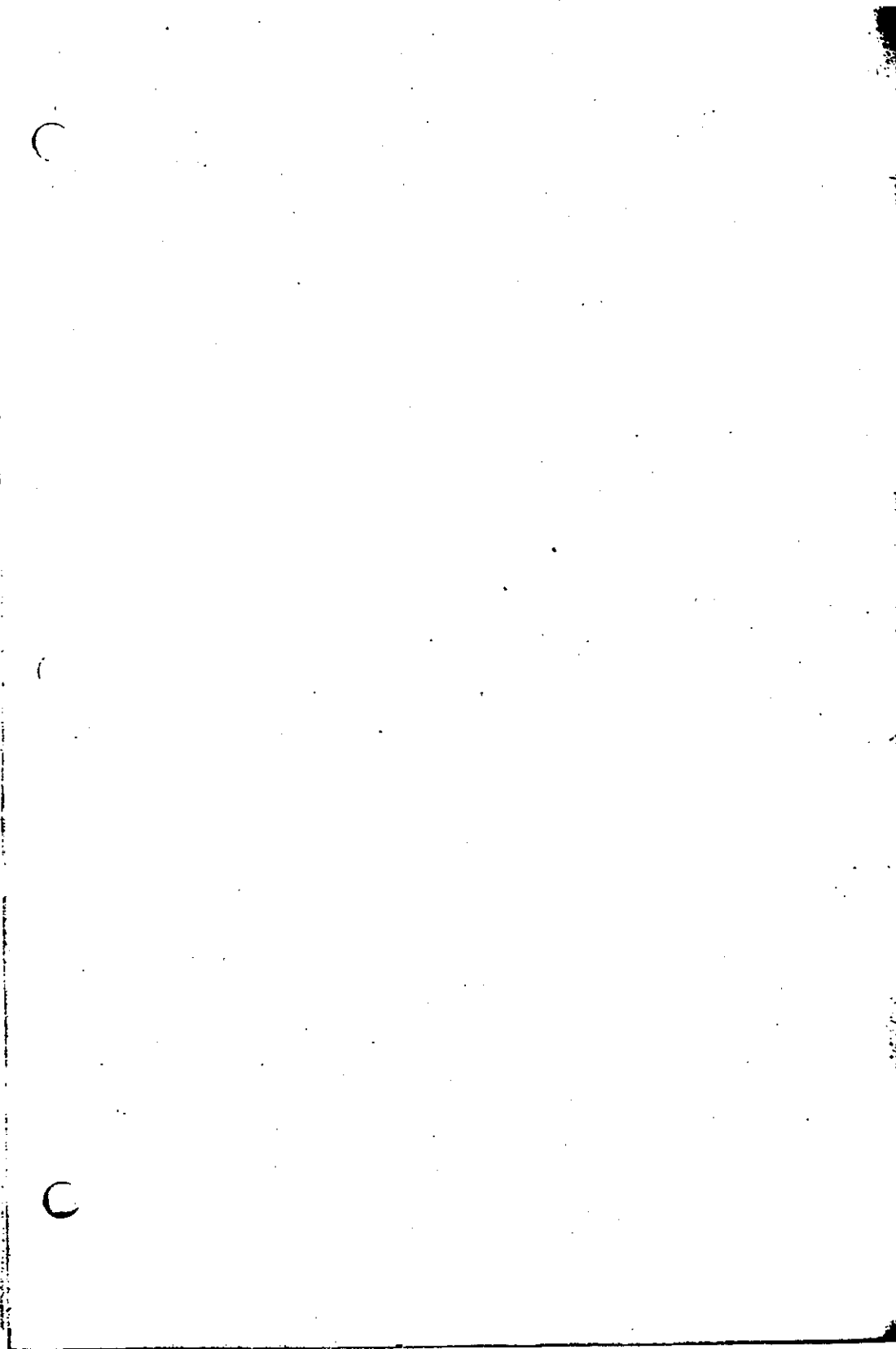
Black Rubbing Varnishes are formulated in the same manner as Color Varnishes and dry in the same length of time under the same drying conditions. They should never be recommended as a finishing coat.

	Price per gallon	
	Quarts	1s
Superfine Coupe Black (6821).....	3 18	2 75
Black Body Rubbing (6827).....	3 40	2 00

BLACK FINISHING VARNISHES

Black Finishing Varnishes are made of dry blacks and finishing varnish. They dry in twenty-four to thirty-six hours, depending upon the same drying conditions as Color Varnishes.

	Price per gallon	
	Quarts	1s
Black Finishing Varnish No. 29 (18129).....	2 75	2 35
Satin Finish Black No. 60 (6000).....	2 90	2 50
Chassis Black Finishing Varnish No. 35 (7235).....	2 25	1 85



0007-SWP-000012006

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MANUFACTURERS SALES DEPARTMENT

REPRESENTATIVE'S CONFIDENTIAL PRICE LIST

EFFECTIVE OCTOBER 20, 1927

Subject to change without notice

VARNISHES

VARNISH TERMS:

Two per cent for cash ten days from
date of invoice, or sixty days net

REDUCER TERMS:

One per cent for cash ten days from
date of invoice, or thirty days net



THE SHERWIN-WILLIAMS CO.

ADMINISTRATION OFFICES AND FACTORY, CLEVELAND, OHIO
SALES OFFICES AND WAREHOUSES IN PRINCIPAL CITIES

VB1 (E) M27 83

0007-SWP-000012007

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MANUFACTURERS SALES DEPARTMENT

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PACKAGE DIFFERENTIALS

Non-returnable Drums	5c more than returnable drums
5-gal. Containers	30c more than returnable drums
1-gal. Containers	30c more than returnable drums



THE SHERWIN-WILLIAMS COMPANY
NEW YORK, N. Y.
CHICAGO, ILL.
PHILADELPHIA, PA.
PITTSBURGH, PA.
ST. LOUIS, MO.
WASHINGTON, D. C.

SHERWIN-WILLIAMS PRODUCTS

RUBBING AND POLISHING VARNISHES

SPECIAL PIANO POLISHING (0354)

The finest high-grade Piano and Cabinet Varnish possible to manufacture for the best grade of piano and phonograph cabinet finishing. It is perfectly transparent, beautifully magnifying and bringing out the tone and character of the wood. Dries dust free in two hours, to re-coat in forty-eight hours, to rub in five to six days. Flowing coat dries to polish in seven to eight days.

1s.....	2 75
5s.....	2 85
Non-Returnable Drums.....	2 60

FINEST RUBBING AND POLISHING (0814)

One of our highest grade Polishing Varnishes for best grade furniture and pianos. Easy working under the brush, or can be sprayed with the air gun and flows out evenly. (70 Body.) This is the varnish we sell the piano and phonograph cabinet manufacturers which includes some of the largest and best piano factories in the United States. For furniture work recommend re-coating in forty-eight hours and rubbing in three to five days.

1s.....	2 50
5s.....	2 40
Non-Returnable Drums.....	2 25

RUBBING AND POLISHING No. 98 (01898)

A Rubbing and Polishing Varnish of highest quality recommended where a first class finish is desired on pianos and furniture. (70 body.) Flows well; levels perfectly; dries dust free in two to three hours—hard in twelve hours; may be sanded satisfactorily in eighteen hours and rubbed in forty-eight hours. Polishes to a high lustre in three to four days. This varnish possesses extreme toughness and has excellent fullness. It provides a satisfactory depth of finish on the work with a limited number of coats.

1s.....	2 25
5s.....	2 15
Non-Returnable Drums.....	2 00

EXTRA DULL RUBBING (0833)

A varnish designed for dull rubbed work only—not to be polished. Especially recommended where dull rubbed work only is desired, such as on American walnut, Circassian walnut, mahogany, etc. Dries dust free in two hours—can be re-coated in thirty-six to forty-eight hours, and rubbed in two to three days. This varnish so constructed as not to polish easily. Does not sweat out or gloss up as some so-called Rubbing Varnishes do.

1s.....	2 50
5s.....	2 40
Non-Returnable Drums.....	2 25

WHITE MAPLE POLISHING (0819)

Paler in color than our regular line of rubbing and polishing varnishes. Specify whenever extremely pale varnish is desired. Can be brushed or sprayed, and flows out evenly. Dries dust free in three hours, to re-coat in forty-eight hours, to rub in three to five days.

1s.....	2 90
5s.....	2 80
Non-Returnable Drums.....	2 65

TRIPOLAC RUBBING (01849)

A good-grade, dull rubbing varnish, adapted for use on medium grade cabinets, furniture and case goods. It is pale in color, heavy bodied (55), dries dust free in two to three hours, to re-coat in twenty-four to thirty-six hours, to rub in four to five days and polish the day following.

1s.....	2 10
5s.....	2 00
Non-Returnable Drums.....	1 85

RUBBING AND POLISHING VARNISHES

Continued

1250 02112119 02111 11111

HEAVY RUBBING AND POLISHING (0860)

As the name indicates, a very heavy-bodied polishing varnish (55). Especially designed for davenport and heavy rocker work—pale in color, easy working, and can be sprayed when used in connection with a heater. Dries to re-coat in two to three days; can be rubbed and polished in three to five days, showing up with an unusually heavy-bodied deep, full finish. An ideal varnish where the surface demands a full coat to be left either in the gloss or rubbed; or rubbed and polished effect as desired. We call particular attention to its heavy body.

(Supplied at 60 Body under Rr 01811. Same price.)

1s.....	1 95
5s.....	1 85
Non-Returnable Drums.....	1 70

HARD DRYING GLOSS (01800)

A high grade gloss varnish of better quality than the average, adapted for medium priced furniture, chairs, rulers and novelties of all kinds. Dries sufficiently hard to be lightly rubbed, when desired.

1s.....	1 80
5s.....	1 70
Returnable Drums.....	1 60

GLOSS FINISHING VARNISHES

MACHINERY FINISHING (0248)

An easy working pale varnish which can be used over light colors. Dries hard in twenty-four hours with a full gloss; is tough, elastic, oil and water resisting.

1s.....	2 10
5s.....	2 00
Non-Returnable Drums.....	1 85

FINE CABINET FINISHING (Brushing) (0862)

A more elastic varnish than 01205 and 01159; dries a bit slower, and in point of flexibility and durability, better quality. Dries harder with better character and can be slightly rubbed if desired—also five points heavier in body than 01159.

1s.....	1 75
5s.....	1 65
Returnable Drums.....	1 45

PALE FINISHING No. 92 (01192)

A pale, heavy-bodied varnish which dries somewhat harder and has better water resisting qualities than 01195 and 0881, otherwise very similar.

1s.....	1 60
5s.....	1 50
Non-Returnable Drums.....	1 35

HEAVY GLOSS FINISHING (Dipping) (01205)

Similar to 0881 in color, body, reduction, and drying—although longer in oil and therefore more elastic. If anything, dries a little bit slower than 0881.

1s.....	3 55
5s.....	3 45
Returnable Drums.....	1 25

SHERWIN-WILLIAMS PRODUCTS

GLOSS FINISHING VARNISHES—Continued

GLOSS CHAIR FINISHING (Brushing) (01159)

Our popular brushing coach—possesses good qualities of 0881 and 01205, but is somewhat lighter in body (70) and comes ready for brushing use. Dries to re-coat in twenty-four hours.

1s.....	1 60
5s.....	1 40
Returnable Drums.....	1 20

TOYSPAR FINISHING (02139)

A popular finishing varnish for toys, sleds, kiddie cars, etc. Standard with large consumers. Elastic, durable and waterproof; high gloss and heavy bodied. Can be reduced 20 to 50 per cent for dip work.

1s.....	1 65
5s.....	1 45
Returnable Drums.....	1 25

DIPPING FINISHING (0881)

Our most popular dipping coach for chairs and medium priced furniture, novelties, and all general small piece woodwork. Heavy bodied (60)—reduced 35 1/4 per cent to 50 per cent with benzine for dipping—when so reduced dries hard over night. If second coat is to be applied, allow twenty-four hours between coats. This varnish is medium pale in color, is practically waterproof, will not spot or scratch white easily.

1s.....	1 60
5s.....	1 40
Returnable Drums.....	1 20

QUICK FINISHING No. 30 (01830)

For low priced furniture work of all kinds. Is pale in color, heavy in body, can be reduced 25 to 50 per cent with benzine. Dries over night. Will not spot white easily—not quite as elastic as 0881.

1s.....	1 45
5s.....	1 25
Returnable Drums.....	1 15

FIRST COATERS (Clear)

MISSION-LAC (0679)

Light in body and medium in color, works very easily—dries with a shellac-like finish—will withstand washing with water. Is intraded both as a finishing coat on surfaces stained in Mission effects, and also as a high grade quick drying First Coater. One coat on top of stain produces a finish similar to that obtained with a coat of shellac and a coat of furniture wax. Will not wash up, scour or bleed up any well-made stain. Can be successfully dipped as well as brushed. Dries dust free in one hour, hard in twenty-four hours.

1s.....	2 66
5s.....	2 56
Returnable Drums.....	2 35

HARD DRYING COATER (01057)

Heavier bodied (70) than 0373—more elastic—dries to re-coat over night, but if possible allow twenty-four hours. Pale in color, seals perfectly and is elastic enough to be thoroughly safe under any high grade varnish.

1s.....	1 60
5s.....	1 50
Non-Returnable Drums.....	1 35

QUICK FIRST COATER (0373)

A quality low priced First Coater—medium color—sands to re-coat easily over night. Seals well and holds out subsequent varnish coats.

1s.....	1 60
5s.....	1 40
Returnable Drums.....	1 20

SHERWIN-WILLIAMS PRODUCTS

beunitnd FIRST COATERS (Pigment) 22016

22111 No. 1 FLINT SURFACER (14409)

A pale, free-flowing, fast-drying pigment First Coater. Because of these characteristics, it works more easily and requires less sanding than any similar product on the market, thus showing greater economy in use. Possesses superior hardening qualities, pigment holds up well in suspension, showing little if any tendency to settle out. Designed for all kinds of work, except maple. Work coated today ready to sand and re-coat tomorrow. Sufficiently heavy in body to stand some reduction for brushing.

1s.....	1 70
5s.....	1 60
Agt. Bbls.....	1 45

PALE FLOWING SURFACER (14164)

Possesses all good qualities of No. 1 Flint Surfacers, but is lighter in color and can therefore be used on all kinds of work, including the lighter colors, such as white maple, etc. Work coated today ready to sand and re-coat tomorrow. This surfacer contains more pigment than No. 1 Flint.

1s.....	1 70
5s.....	1 60
Agt. Bbls.....	1 45

QUICK SANDING SURFACER (44)

As name indicates, is a First Coater containing pigment ground very fine on a stone mill—not only seals up coat, but produces a full bodied finish when varnish has been applied over it. Quick Sanding Surfacers is popular because it dries quickly and sands clean over night without gumming sandpaper. Light in color; pigment does not settle hard in packages. Comes ready for use if brushed. When used for dipping, should be reduced 35 to 50 per cent with benzine, the amount depending on the amount of surface to be dipped.

1s.....	1 50
5s.....	1 40
Agt. Bbls.....	1 25

2A 1
2C 1
2E 1

FIRST COATERS (Spirit)

PREMIER-LAC (02745 White) (02759 Orange)

Our highest grade Spirit Varnish. A perfect sealer and undercoater. If desired, it may be re-coated and used as a finish coat. It can be applied with brush or spray, full body; however, best results are obtained by reducing ten or fifteen per cent with 02900, denatured alcohol (188 degree proof) or Benzol. It dries to sand in three hours, and can be rubbed in six to eight hours with pumice stone and water to obtain a dull rubbed finish or with pumice and oil to secure a rubbed effect with more sheen. The film is tough, hard, elastic, and has better water-resisting qualities than shellac. It is not affected by water, acid, alkali, or any of the common solvents. It is recommended for use on all kinds of wood, metal, and other surfaces. Has a tough film and better water-resisting qualities than shellac.

1s.....	1 40
5s.....	1 30
Returnable Drums.....	1 30

2A 1
2C 1
2E 1

MARVELAC (02710 White) (02711 Orange)

A good grade Spirit Varnish having the necessary sealing qualities which especially recommend its use as an all-around undercoater. It can be applied with brush or spray full body; however, best results are obtained by reducing fifteen to twenty-five per cent with 02900, denatured alcohol (188 degree proof) or Benzol. It dries to sand in three hours without gumming sandpaper. Has a tough film and better water-resisting qualities than shellac.

1s.....	1 50
5s.....	1 40
Returnable Drums.....	1 20

2C 1

SPIRIT VARNISH REDUCER (02900)

Designed for use in Spirit Varnishes of all kinds. It has better solvent properties than alcohol. Using it will avoid roping, stringing, and curdling. The perfect Spirit Varnish Reducer.

1s.....	50
5s.....	40
Returnable Drums.....	30

SHERWIN-WILLIAMS PRODUCTS

FLAT DRYING OR DULL FINISH VARNISH

VELVET FINISH No. 68 (01868)

Especially designed for furniture of all kinds. Produces a tough, durable finish which this class of work demands. Dries with a rich, dull velvety sheen, giving the genuine dull rubbed effect without the cost and labor of rubbing. To be applied over a good quality gloss varnish; pure Shellac or Premier-Lac. Dries dust free in from two to three hours; hard over night, or can be oil rubbed if desired in from thirty-six to forty-eight hours. Intended for spray application at full body.

1g.....	1 85
5g.....	1 75

VELVET FINISH No. 99 (01899)

Similar in construction to 01868 but producing a finish with more sheen. Should be handled similar to instructions governing the former. Slightly faster in drying than No. 68, somewhat tougher and builds faster. It provides more depth of finish on the work, influenced to some extent by its greater sheen.

1g.....	1 85
5g.....	1 75

AIRPLANE FINISHING VARNISH

REXPAR (02121)

Meets Government Airplane Varnish specifications. Is absolutely waterproof—extremely quick drying, gas proof, hot and cold, salt and soapy water proof—especially recommended for general work where a Spar Varnish is desired that is fool proof and safe for boats, canoes, bulletin boards, and exterior signs of all kinds. Can be used over all colors on engines and high grade machinery, trunks, doors, porch ceilings, washing machines, refrigerators, etc.

1g.....	3 40
5g.....	3 30
Non-Returnable Drums.....	3 15

WATERPROOF SPAR VARNISH (01079)

Where Rexpa is too high in price, recommend Waterproof Spar Varnish as meeting all the requirements demanded of a high grade durable water resisting spar varnish. Do not hesitate to recommend Waterproof Spar whenever and wherever a high grade oil and water resisting varnish is required for general use and under the most severe conditions.

1g.....	2 00
5g.....	2 00
Non-Returnable Drums.....	2 75

AUTOMOTIVE VARNISHES

ENGLISH BODY FINISHING (01511)

A pale, heavy bodied and durable varnish of great brilliancy designed for highest grade motor cars and carriages. Specially prepared with a view to easy working qualities and drying to meet the demands of the practical finisher in the practical shop. This varnish is made from the finest selected gums, matured under ideal conditions which render it perfectly ripe for use. Special care is exercised in the aging process. This helps bring out the great brilliancy for which the varnish is noted. 6 gals. or over.....

6 gals. or over.....	5 45 5 75
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ENGLISH PALE RUBBING (01512)

A pale, rubbing or flattening varnish, designed for highest grade motor cars and carriages. Works freely and levels evenly. Dries to rub in twenty-four to thirty-six hours under normal conditions, although forty-eight hours should be allowed when shop conditions permit. This varnish is designed for mixing with colors, especially for the last or split-coat—when so mixed it will not curdle or thicken, as is so often the case with many present day Rubbing Varnishes of inferior quality. This varnish should be carefully rubbed or flatted, then followed by a full coat of English Body Finishing Varnish.

6 gals. or over.....	5 40 5 00
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121KUTOMOTIVE VARNISHES—Continued

ENGLISH GEAR FINISHING (01513)

A pale, heavy bodied, waterproof varnish for motor car chassis and gears, carriage wheels, etc. Works freely and flows evenly, producing a deep, well-rounded finish of great brilliancy and exceptional durability. Sets out of dust in five to six hours and dries hard in twenty-four to thirty-six hours. Use at full body over color and striping coats.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	5 15	4 75

WEARING BODY FINISHING (01216)

A high grade body finishing varnish, unsurpassed for durability. Has free working and flowing qualities—dries dust free in five to six hours—can be handled next day, and dries thoroughly hard in two to three days. Dries out with a full, well rounded out finish.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	6 15	4 75

PALE DURABLE BODY FINISHING (01526)

A splendid full bodied finishing varnish. Especially recommended as a reasonably quick drying, durable varnish. Car can be run out of garage twenty-four hours after varnish has been applied.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	4 50	4 50

PALE BODY RUBBING (01515)

A very high grade rubbing varnish of dependable quality. Is pale in color, heavy in body, works and flows freely. Dries to rub in twenty-four to thirty-six hours. For best results allow forty-eight hours. Will not thicken when used in zinc and lead colors and therefore can be used in making a split-coat color varnish.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	4 20	4 00

PALE PERFECTION GEAR (0915)

A very pale, durable, elastic, finishing varnish for running parts on a good grade of work over delicate colors, and on account of color, unusual working and flowing qualities, body and rich lustre, it is the selection of many carriage and automobile shops. Will dry dust free in about six hours, hard enough to handle in thirty-six hours and hard in two days.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	3 50	3 50

ELASTIC GEAR FINISHING (099)

As high a grade all-around gear finishing as can be made. Is pale in color, has good body, works and flows freely, dries dust free in four to five hours, to handle in twenty-four hours and hard in thirty-six hours. Has a high lustre, is very elastic and durable.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	3 50	3 50

QUICK FINISHING (01533)

A medium colored finishing varnish designed to meet the conditions in custom shops. This varnish does not require the expert handling that high grade finishing varnishes call for. It is easy working, free flowing, drying to a full, brilliant finish. It sets so tough in four to five hours, and can be put into service at the end of twenty-four hours, providing it is flooded with clear, cold water.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	3 40	3 00

QUICK RUBBING (01532)

A medium colored rubbing varnish, designed to meet the general conditions found in custom shops. It is easy working, free flowing, leveling out especially well so that it does not require as much rubbing as the general run of rubbing varnishes. It dries dust free in one to two hours, and sufficiently hard for a light rubbing in twenty-four hours, although forty-eight hours is preferable.

NOTE—Should not be used as a mixing varnish with zinc colors.

	$\frac{1}{4}$ gal.	1 lb.
6 gals. or over	2 50	2 50

SHERWIN-WILLIAMS PRODUCTS

MOTOR TRUCK, WAGON AND IMPLEMENT VARNISHES

MOTOR TRUCK FINISHING VARNISH (0971)

A high grade finishing varnish for motor truck and high grade wagon work. Is pale in color, heavy in body, works and flows freely and dries to handle next day. Has a high lustre and is very elastic and durable.

1s.....	2 25
5s.....	2 15
Non-Returnable Drums.....	2 00

MOTOR AND WAGON GEAR VARNISH (01206)

A very pale, hard drying varnish that can be used over delicate colors. Stands out with a good full body, dries to handle over night and has good water-resisting qualities.

1s.....	2 15
5s.....	2 05
Non-Returnable Drums.....	1 90

HARD DRYING GEAR VARNISH (0861)

Similar to 01206, but designed to sell at a lower price. It is an exceptional value and is now standard with one of the largest buggy manufacturers.

1s.....	2 00
5s.....	1 90
Non-Returnable Drums.....	1 75

DURABLE WAGON COACH (01032)

Made along the lines of our famous 0993 varnish, but contains more oil and is more durable. Is pale in color, good body, dries to handle over night, and has good water-resisting qualities.

1s.....	1 85
5s.....	1 75
Returnable Drums.....	1 65

IMPLEMENT DIPPING (01703)

An excellent varnish representing unusual value. One of the best general dipping varnishes. Highly recommended for its weather and water-resisting properties. Is pale in color, heavy bodied, and will stand a twenty-five per cent reduction with petroleum naphtha. Dries dust free in three to four hours, to handle or re-coat in eighteen to twenty-four hours, with an elastic and high glossy film.

1s.....	1 35
5s.....	1 25
Returnable Drums.....	1 05

PALE DURABLE IMPLEMENT COACH (0993)

A high grade implement varnish. Is pale in color, heavy bodied and flows out freely. Dries dust free in three to four hours, to handle or re-coat in twelve to eighteen hours with a very tough, elastic and long wearing film. Reduce ten per cent with petroleum naphtha for spraying.

1s.....	1 45
5s.....	1 35
Returnable Drums.....	1 15

TIN TIE DECORATING VARNISHES

GENERAL

The types of material used in Tin Decorating work are as follows:

Lacquers	Varnishes
Processing	Processing
Sanitary	White Finishing
Adhesive	Sign Finishing

*Not to be confused with the Nitrocellulose type.

One feature about Tin Decorating Materials differentiates them from all other of our products, i. e., all fabrication is carried out after the coatings have been applied and baked. It involves extreme abrasive action of the dies, punches, and rolls while the coated tin sheet is being cut, shaped and crimped. To withstand such operations, the film must be extremely hard and yet elastic enough to end through 180 degrees without cracking and must show no tendency to tear free from the surface.

Owing to the varied requirements of the trade, it is to a large extent necessary to deal with each account individually.

The products shown on page 209 represent standard materials and should be offered wherever possible. All propositions requiring development work must be presented on Varnish Special Requirements Report blanks with full details.

VARNISHES

PROCESSING

Applied over printed spots the size of bottle caps and baked, then stamped with dies, the skirts being formed at the same time. Used for protection of decorations against the action in the sterilizing chamber, as all these caps when applied to bottles must stand sterilizing with steam at 240 degrees F. for a half hour, or water at 190 degrees F. for an hour.

WHITE FINISHING

Used to increase the gloss and appearance of highly decorated packages. Must be tough and elastic to stand the bending and crimping—to which it will be subjected in the process of making the various containers. White Finishing Varnishes are baked in automatic ovens or stationary steam ovens.

SIGN FINISHING

Designed to serve as a weather protective coating for outside signs.

ALKALI PROOF VARNISHES

Used on tubes for shaving creams. The varnish is not attacked by the Cream which in process of filling the tubes may become smeared over the varnished surface.

LACQUERS

PROCESSING

Used for the outside of food containers requiring sterilization after cooking.

SANITARY

Used on the inside of food containers for protection against the action of fruit juices and moisture. Gold Sanitary Lacquers are baked from 300 degrees to 400 degrees F. for thirty to forty-five minutes depending upon the nature of the food products used. Must be absolutely free from the slightest trace of lead.

ADHESIVE

Applied to the side of the tin which forms the inside of the bottle cap after the processing varnish or lacquer has been baked on the other side. It also holds the cork inserts in place during shipment from manufacturer to the automatic capping machines of the various bottlers.

GOLD AND BRASS

Used for coating dry packages, as the bottom of cans, pill boxes, curtain rods, tobacco cans, candy boxes, lard pails, etc. Need not stand any severe tests, outside of not being fugitive to sunlight, and sometimes a little drawing when the sheets are pressed into shape. Some cans, however, must stand a draw from three to three and one-half inches when they are made with no seam at all. The varnish must not be punctured.

Effective May 31, 1927

SHERWIN-WILLIAMS PRODUCTS

TIN DECORATING VARNISHES

GENERAL

The types of material used in Tin Decorating work are as follows:

*Lacquers

Processing
Sanitary
Adhesive

Varnishes

Processing
White Finishing
Sign Finishing

*Not to be confused with the Nitro-Cellulose type.

One feature about Tin Decorating Materials differentiates them from all other of our products, i.e., all fabrication is carried out after the coatings have been applied and baked. It involves extreme abrasive action of the dies, punches, and rolls while the coated tin sheet is being cut, shaped and crimped. To withstand such operations, the film must be extremely hard and yet elastic enough to end through 180° without cracking and must show no tendency to tear free from the surface.

Owing to the varied requirements of the trade, it is to a large extent necessary to deal with each account individually.

The products shown on page 209 represent standard materials and should be offered wherever possible. All propositions requiring development work must be presented on Varnish Special Requirements Report blanks with full details.

VARNISHES

PROCESSING

Applied over printed spots the size of bottle caps and baked, then stamped with dies, the skirts being formed at the same time. Used for protection of decorations against the action in the sterilizing chamber, as all these caps when applied to bottles must stand sterilizing with steam at 240° F. for a half hour, or water at 190° F. for an hour.

WHITE FINISHING

Used to increase the gloss and appearance of highly decorated packages. Must be tough and elastic to stand the bending and crimping—to which it will be subjected in the process of making the various containers. White Finishing Varnishes are baked in automatic ovens or stationary steam ovens.

SIGN FINISHING

Designed to serve as a weather protective coating for outside signs.

ALKALI PROOF VARNISHES

Used on tubes for shaving creams. The varnish is not attacked by the Cream which in process of filling the tubes may become smeared over the varnished surface.

LACQUERS

PROCESSING

Used for the outside of food containers requiring sterilization after cooking.

SANITARY

Used on the inside of food containers for protection against the action of fruit juices and moisture. Gold Sanitary Lacquers are baked from 300° to 400° F. for 30 to 45 minutes, depending upon the nature of the food products used. Must be absolutely free from the slightest trace of lead.

ADHESIVE

Applied to the side of the tin which forms the inside of the bottle cap after the processing varnish or lacquer has been baked on the other side. It also holds the cork inserts in place during shipment from manufacturer to the automatic capping machines of the various bottlers.

GOLD AND BRASS

Used for coating dry packages, as the bottom of cans, pill boxes, curtain rods, tobacco cans, candy boxes, lard pails, etc. Need not stand any severe tests, outside of not being fugitive to sunlight, and sometimes a little drawing when the sheets are pressed into shape. Some cans, however, must stand a draw from 3 to 3 1/2 inches when they are made with no seam at all. The varnish must not be punctured.

VH1 (E) E27 810

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TIN DECORATING VARNISHES—Continued

ACID PROOF

Employed on the inside of pickle and olive jar tops. Several coats are sometimes applied, as the brine, being very strong, readily attacks the metals if there should be a small fracture in the coating lacquer. Must also stand sterilizing and the dies when being formed into caps.

WHITE FINISHING VARNISH (02315)

Produces a very glossy, pale, hard, tough and elastic film for lithographed cans, powder boxes and lithographed specialties. When used full body a film of very high gloss is obtained. It is applied by coating machine, can be baked in one hour at 180 degrees or in twenty-five minutes at 220 degrees F. Can be reduced if merely protection, rather than high gloss, is required.

1s.....	1 80
5s.....	1 70
Returnable Drums.....	1 60

WHITE FINISHING VARNISH (02335)

This material is capable of being embossed and is adapted to certain types of sign work. When applied full body the film is very pale in color, high in gloss, tough, and elastic; gloss can be lessened by reducing from five to fifteen per cent with Rx 0974. Baking is done at 200 degrees F. for one hour, or 220 degrees F. for one-half hour.

1s.....	1 85
5s.....	1 85
Returnable Drums.....	1 35

GOLD LACQUER (02333)

Specially prepared to withstand boiling water; is also resistant to acid and alkalis and sufficiently elastic to stand crimping. It is applied by coating machines, after twenty-five to fifty per cent reduction with 0974 or Benzine. It bakes in thirty to forty-five minutes at 350 degrees F.

1s.....	1 65
5s.....	1 45
Returnable Drums.....	1 25

GOLD LACQUER (02332)

Used on outside of lard pail covers and similar containers. It is applied by coating machine; will stand up to 100 per cent reduction with Rx 0974, bakes at 250 degrees F. in one-half hour. The film is elastic and readily withstands drawing and crimping.

1s.....	1 45
5s.....	1 35
Non-Returnable Drums.....	1 20

BRASS LACQUER (02334)

Used on cans, covers and boxes. It can be reduced twenty-five per cent with Rx 0974, baked to 150 degrees F. to 170 degrees F. for two and one-half to three hours, and drawn or crimped.

1s.....	1 60
5s.....	1 40
Non-Returnable Drums.....	1 25

ADHESIVE LACQUER (02336)

This Adhesive Lacquer is used to make bottle caps adhere to tin, on inside of bottle caps, jar covers, etc. It requires no reduction and bakes in one-half hour at 220 degrees F. The application of 02336 is restricted to plate that is to be lacquered and fabricated into caps in one plant without packing in cases and shipping for any distance. The film is destroyed when tins that have been packed for a period are pulled apart.

1s.....	1 45
5s.....	1 35
Returnable Drums.....	1 15

ADHESIVE LACQUER (02337)

The material is applied and baked in the same way as 02336. It has the advantage over 02336 in that it can be applied to tin plate that subsequently is packed in cases and shipped for any distance without injury to the coating when plates are separated.

1s.....	1 60
5s.....	1 40
Non-Returnable Drums.....	1 25

SHERMAN-WILLIAMS' PRODUCTS

MIXING VARNISHES

PALE RUBBING AND MIXING (01517)

A pale, high grade rubbing and mixing varnish for automobile work. Can be used as a clear rubbing, also for split-coat work. Has good body, brushes easily, can be re-coated or rubbed in thirty-six to forty-eight hours. Will not thicken or liver up in zinc or lead colors.

15.....	3 25
50.....	3 15
Non-Returnable Drums.....	3 00

WHITEST ELASTIC MIXING (01509)

A mixing varnish for making white enamels of all kinds (enamels for coating tooth paste tubes, etc.). Will bake in six to eight hours at 150 to 160 degrees Fahrenheit. Has a high gloss, splendid water-resisting qualities, is very elastic, and will stand crimping and bending tests of all kinds.

15.....	4 25
50.....	4 15
Non-Returnable Drums.....	4 00

HIGH GLOSS MIXING (0359)

A pale high gloss varnish. Is heavy in body and mixes readily with japan or oil colors. Bakes in three to five hours at 150 to 175 degrees Fahrenheit. Is tough and elastic.

15.....	2 15
50.....	2 05
Non-Returnable Drums.....	1 80

WIRE CLOTH MIXING (0355)

Designed especially to be mixed with paste black for use on wire screen work of all kinds (door and window screen). Does not curdle when mixed with color, holds up well in dipping tank, is tough and durable. Will air dry over night, but is generally run through drying towers in common practice.

15.....	1 75
50.....	1 65
Returnable Drums.....	1 45

COACH JAPANS

GOLD SIZE JAPAN (098)

This is a superior, pale, heavy-bodied article. Is very economical, owing to its strength, and is perfectly safe for use with any mixture. It is a binder which can be used with delicate colors without injury to them. It will properly harden rough stuff and facilitate the drying of all undercoats. Gold Size Japan is safe and certain.

15.....	2 75
50.....	2 65
Non-Returnable Drums.....	2 50

COACH PAINTERS JAPAN (049)

This is especially prepared for coach painters' use. A thoroughly reliable article for the preparation of all undercoatings. Will be found economical and always uniform. Acts as a hardening agent as well as a mixing japan.

15.....	2 50
50.....	2 40
Non-Returnable Drums.....	2 25

SHERWIN-WILLIAMS PRODUCTS

DRIERS**WHITE LIQUID DRIER (01040)**

The strongest and most powerful white liquid drier that can be made from the best obtainable materials. It is unequalled for drying and mixing qualities. It will dry linseed oil perfectly when mixed in the proportion of about one gallon of drier to twenty gallons of oil. This drier will mix with oil without any indications of curdling or separation and will not affect the most delicate shades or tints.

1s.....	2 25
5s.....	2 15
Non-Returnable Drums.....	2 00

HERCULES DRIER (0904)

A high grade concentrated dark drier of exceptional strength. It mixes readily with oil and will not curdle or separate. Will dry paste fillers promptly and perfectly. Owing to its heavy body and great drying strength, it is the most economical for the master painter. Dries in the proportion of one part drier to forty parts of oil over night.

1s.....	2 10
5s.....	2 00
Non-Returnable Drums.....	1 85

DRY-O-NITE (0229)

The master painters' ideal drier, a perfectly safe drier for general use. It mixes readily with oil, paints, etc. Will not separate, precipitate, burn, saponify or curdle, but thoroughly dries oil, paint, etc., leaving an elastic, smooth and wear-resisting surface. Unlike most driers, the painting materials to which it has been added as directed, will dry perfectly from the inside out, thus entirely precluding the possibility of surface drying. There is no drier made which will more readily and thoroughly mix with linseed oil and oil paints without separation.

1s.....	1 60
5s.....	1 50
Non-Returnable Drums.....	1 35

JAPAN DRIER (03004)

A strong, economical drier, in no way to be compared with the cheaper qualities offered generally under a similar name.

1s.....	1 10
5s.....	1 00
Non-Returnable Drums.....	85

NOTE

In addition to these listed varnishes we manufacture many specialties in large quantities, including

Shovel Lacquers
Wall-Paper Varnishes
Wire Cloth Varnishes
Spirit Handle Lacquers

Write General Varnish Sales Department, Cleveland, for prices and full information on any varnishes not regularly listed.

SHERWIN-WILLIAMS PRODUCTS

REDUCERS

UNIVERSAL THINNER (0261)

A thoroughly satisfactory thinner for all types of liquid and paste paints, also implement and gloss coach varnishes. NOT a substitute turpentine.

1s.....	70
5s.....	80
Non-Returnable Drums.....	46

REDUCER No. 74 (0974)

To reduce any paint, mill white, paste, enamel, black japan, undercoater or varnish to a thinner body. Contains no varnish, evaporates somewhat slower than benzine, but at the same time does not impede drying. Is primarily a thinner. Introduces better flowing and working qualities than when benzine is used.

1s.....	70
5s.....	80
Non-Returnable Drums.....	46

REDUCER No. 55 (0655)

Very similar to Reducer No. 74 (0974), except that it contains a percentage of an elastic durable varnish which acts as a "binder" sometimes demanded by certain trade who do not want a clear thinner reducer. Can be used in enamels, paints of all kinds, red enamel, undercoaters, etc., does not skin over in the dipping tank, an important point with many concerns. Benzine does not mix as well, and benzine or turpentine would not introduce any binder.

1s.....	1 05
5s.....	95
Non-Returnable Drums.....	80

CLIMAX REDUCER (0614) (Straw Color)

About the same as Reducer No. 74 (0974) but designed for A. I. P. Pastes, cheap paints, such as cheap lustral enamels, fence paints, paints used on cheap metal and wood cases. Contains some linseed oil and therefore tends to aid durability. Climax Reducer contains no drier, and is not likely to burn the paint to which it is added. Has better mixing qualities and improves durability compared to benzine.

1s.....	1 00
5s.....	90
Returnable Drums.....	70
28	

RELIABLE REDUCER (0615) (Auburn Color)

Intended for practically same purpose as Reducer No. 74 (0974) and Climax Reducer (0614), but contains a percentage of our strong Hercules Drier. Therefore improved drying without impairing elasticity—two important points. Has better mixing and drying qualities than when benzine is used.

1s.....	1 00
5s.....	90
Returnable Drums.....	70

ENAMEL REDUCER No. 1 (01125)

To reduce color varnishes, lustral enamels, red enamels, other gloss paints and varnishes. This reducer contains a percentage of quick-drying varnish and therefore improves drying as well as reducing body, and at same time permits the original material to retain its gloss, an important point. Benzine does not mix as well and benzine or turpentine would not retain original gloss of material.

1s.....	1 15
5s.....	1 05
Returnable Drums.....	85

REDUCERS—Continued

ENAMEL REDUCER No. 2 (0368)

Same purposes as 01125, but contains a percentage of better grade and more elastic varnish. Is also somewhat heavier in body than 01125 and improves the quality of the ordinary material to which it is added, retaining the original gloss and imparting flexibility. Benzine does not mix as well and benzine or turpentine would not retain original gloss or be as tough, elastic and durable.

1s.....	1 35
5s.....	1 25
Non-Returnable Drums.....	1 10

ASEPTIC ENAMEL REDUCER (01075) (Water White)

For reducing White Enamels to dipping or spraying consistency, the amount of reduction varying according to the finish desired, number of coats applied, etc.

Contains a percentage of Pure Damar Gum (no resin). When using this reducer the enamel retains its original whiteness and the reducer itself positively does not cause the enamel to turn yellow in time. Benzine does not mix as well, and benzine or turpentine would not retain original gloss of enamel.

1s.....	1 75
5s.....	1 65
Returnable Drums.....	1 45

MARVELAC (see page 204)

METAL FURNITURE ENAMEL REDUCER (02901) (Pale Color)

For reducing Metal Furniture Enamel of all kinds to dipping and spraying consistency. This reducer contains a percentage of the same tough and hard drying varnish as is used in our original enamel. Reduces body and retains elasticity. Turpentine or benzine would not retain original finish or impart any binder.

1s.....	1 80
5s.....	1 50
Non-Returnable Drums.....	1 35

PERFECT METHOD OIL (01121) (Color of Boiled Linseed Oil)

For reducing outside paints of all kinds (SWP excepted), such as structural steel paints, freight car paints, etc. Is tough, elastic and sets both as a drier and hardener. When using P. M. Oil in place of linseed oil no other drier of any kind should be added. Advantage of using this oil is that it eliminates using mixtures of linseed oil, drier, and thinner.

1s.....	1 05
5s.....	1 00
Non-Returnable Drums.....	1 70

LINSOLINE (01243) (Color of Boiled Linseed Oil)

Similar to P. M. Oil (01121) but contains twenty per cent boiled linseed oil and is therefore still more elastic and durable. Advantage of using this oil is that it eliminates using mixture of linseed oil, drier, and thinner.

1s.....	1 05
5s.....	95
Non Returnable Drums.....	80

SHERWIN-WILLIAMS PRODUCTS

ASPHALTUMS

FINEST TURPENTINE ASPHALTUM (097)

Made from the finest black asphaltum, linseed oil and thinner. The best asphaltum that can be produced, has good body, and can be reduced if desired.

1s.....	2 75
5s.....	2 65
Non-Returnable Drums.....	2 60

No. 1 ASPHALTUM (0757)

A very good and easy working black varnish. Has good body, is very black and can be reduced about twenty per cent for the general run of work.

1s.....	1 40
5s.....	1 30
Returnable Drums.....	1 10

QUICK DRYING ASPHALTUM (02605)

As the name indicates, is a quick-drying black asphaltum to sell at a popular price and yet offering good quality, in that this asphaltum while working easily and covering well, also possesses good alkali and acid-resisting qualities.

1s.....	90
5s.....	85
Returnable Drums.....	80

MISCELLANEOUS

RIM AND GASKET CEMENT (18471)

For gaskets, rims, radiators, etc., where a quick drying adhesive product is desired for sticking purposes. Finds ready sale to garages, automobile manufacturers, accessory shops, brush manufacturers, etc.

1s.....	2 15
5s.....	2 05
Agt. Bbls.....	1 90

YELLOW PINE SEALER (01238)

Covered by United States patent. Accepted generally by the government as a knot and pitch sealer, being superior to shellac for that purpose, and is more elastic and water-resisting. Can be brushed, dipped or sprayed.

1s.....	1 65
5s.....	1 55
Non-Returnable Drums.....	1 40

PATENT METAL SEALER (02132)

Designed as a one-coat finishing to protect castings of all kinds, steel strips, parts, etc., from rust and weather until ready for use. Easily applied by brushing, dipping or spraying, producing a tenacious film.

1s.....	1 65
5s.....	1 55
Non-Returnable Drums.....	1 40

FLOOR-SEAL (02176)

Floor-Seal is designed to enter into a wood floor and to harden it from within by filling the pores or open cells of the wood and by actually toughening the fibers of the wood itself. Floor-Seal is not intended to produce a varnish finish over the surface. Our regular floor-varnishes are furnished for this purpose. For this reason ONE COAT of Floor-Seal is our standard recommendation for wood floors both in hard and so-called soft woods. This one coat will enter completely into the wood leaving little or no surface film BUT it REMAINS in the wood sealing it against penetration of moisture and maintaining a hardened wood surface even as the wood surface wears down.

Floor-Seal possesses the following outstanding advantages for use on wood floors in schoolrooms, gymnasium floors, factory and mill floors and all similar heavy duty wood floors where the service is too heavy for either a floor varnish, floor enamel or any SURFACE finish which is brushed on.

Floor-Seal DOES NOT DARKEN THE WOOD as does not linseed oil.

Floor-Seal DRIES COMPLETELY and is not a dust catcher as are linseed oil and other floor oils on the market.

Floor-Seal DOES NOT MAKE THE FLOOR SLIPPERY as do floor oils.

Accident Insurance Companies recognize this fact.

A floor finished in Floor-Seal may be waxed for dancing with perfect satisfaction. It does not WASH OUT of floors as do oils.

NOTE: Where the customer insists upon applying two coats of Floor-Seal allow forty-eight hours for drying before applying the second coat.

1s.....	1 70
5s.....	1 60
Non-Returnable Drums.....	1 45

BRONZING LIQUIDS

GREENWILLIAMS TYPED GREEN

No. 1 BRONZING LIQUID (0220)

A Bronzing Liquid of the highest quality, which possesses no offensive odour. It can be used with the finest bronzes and should command a large output with the best trade where a superior quality is demanded.

1000	2.50
500	2.40
250	2.25

No. 2 BRONZING LIQUID (0992)

A satisfactory article which, like the above, is free from any objectionable odour, works well and dries with a good lustre.

1000	2.50
500	1.90
250	1.75

No. 3 BRONZING LIQUID (0320)

A competitive article equal to any similar goods on the market.

1000	1.50
500	1.40
250	1.25

ALUMINUM BRONZING LIQUID (0901)

A highly satisfactory Bronzing Liquid for use in mixing dry aluminium. It is a highly satisfactory article which, like the above, is free from any objectionable odour, works well and dries with a good lustre.

1000	1.45
500	1.25
250	1.20

STON

optical characteristics of the material are not affected by the application of the liquid. The material is not affected by the application of the liquid. The material is not affected by the application of the liquid.

Not being subject to the same conditions as the material, the material is not affected by the application of the liquid. The material is not affected by the application of the liquid.

2 MISCELLANEOUS

RIM AND GASKET CEMENT (18471)

For gaskets, rims, radiators, etc., where a quick drying adhesive product is desired for sticking purposes. Finds ready sale to garages, automobile manufacturers, accessory shops, brush manufacturers, etc.

1b	1 15
5b	2 05
Whl.	1 90

YELLOW PINE SEALER (01238)

Covered by United States patent. Accepted generally by the government as a knot and pitch sealer, being superior to shellac for that purpose, and is more elastic and water resisting. Can be brushed, dipped or sprayed.

1b	1 85
5b	1 85
Whl.	1 40

PATENT METAL SEALER (02132)

Designed as a one-coat finishing to protect castings of all kinds, steel strips, parts, etc., from rust and weather until ready for use. Easily applied by brushing, dipping or spraying, producing a tenacious film.

1b	1 85
5b	1 85
Whl.	1 40

FLOOR SEAL (02176)

Floor-Seal is a pale light bodied water-resisting varnish for sealing and hardening wood floors. Unlike linseed oil and the cheaper paraffin oils used as preservatives, it does not hold the dust or tend to discolor the floors on which it is applied. Floor-Seal is brushed on the same as varnish. Two applications on new wood are recommended. The first coat penetrates into the pores of the wood so as to very nearly disappear while the second coat finishes the job of sealing. If a floor is coated with Floor-Seal, it may be washed without fear of injury. The wood itself is left sealed and hardened long after the thin varnish film on the surface of the floor is worn away.

It is especially adapted for use in schools, department stores, gymnasiums, office buildings, etc. It covers approximately 500 square feet per gallon, one coat.

1b	1 70
5b	1 60
Whl.	1 45

NOTE

In addition to these listed varnishes we manufacture many specialties in large quantities, including

Betting Compounds
Shovel Lacquers
Wall-Paper Varnishes
Wire Cloth Varnishes
Spirit Handle Lacquers

Write General Varnish Sales Department, Cleveland, for prices and full information on any varnishes not regularly listed.

SHEWIN-WILLIAMS PRODUCTS

BRONZING INDUSTRIAL VARNISH GUIDE

BRONZING LIQUIDS

This chart has been prepared to simplify the representative's task of selecting the proper material for a given surface when calling on the manufacturer. These Bronzing Liquids are divided into classes according to composition and price with the Rx number and price shown.

CLASS	NAME	Rx	LABEL	PRICE
1	Aluminum Elastic Mixing Liq.	02303	Red	\$1.45 Returnable Drums
	The highest grade bronzing liquid of the bodied oil type that can be manufactured. Designed to meet the general requirements for exterior use. Should be recommended where drying time is not of first importance, but maximum life is desired. Sets to touch in 8 to 10 hours and dries hard in 30 hours. Approved by the Aluminum Company of America.			
2	Aluminum Spar Mixing Liq.	02302	NO	\$1.25 Non-Returnable Drums
	The highest grade bronzing liquid of the spar varnish type that can be manufactured. Designed to meet the general requirements for exterior use. Should be recommended where a tough, water-resisting, hard and fast drying film is required. Sets to touch in 6 to 8 hours and dries hard in 24 hours. Approved by the Aluminum Company of America.			
3	No. 2 Bronzing Liquid	0992	Red	\$0.95 Returnable Drums
	A good quality bronzing liquid that can be recommended for either interior or exterior use; light in color and has good elasticity. Sets to touch in 45 minutes and dries hard in 12 to 18 hours.			
3	No. 3 Bronzing Liquid	0324	Red	\$0.80 Returnable Drums
	A fair quality bronzing liquid, light in color, reasonable elasticity. Sets to touch in 30 minutes; dries hard in 4 to 5 hours. Should be recommended for interior use only.			

These products may be applied either by brush or spray method.

Mix only sufficient quantity for immediate use.

Use approximately 2 lbs. of bronze to the gallon of liquid.

While the material is being applied it should be stirred frequently.

INDUSTRIAL HARNISH GUIDE-Continued

TOY, NOVELTY AND IMPLEMENT MANUFACTURERS

This chart is prepared to simplify the representative's task of selecting the proper materials for a given surface when calling on Toy, Novelty or Implement Manufacturers. The materials are divided into classes and sub-divided according to method of application with the Rx number and price given in each case.

CLASS	Method of Application	PRODUCT (Rx Number)	LABEL	PRICE
1	Brushing	01732	NO	\$1.25 Non-Returnable Drums
	Best grade pale medium bodied implement varnish, easy brushing and exceptional flowing qualities. Dries dust free in 3 to 4 hours, hard enough to handle or re-coat over night, producing a high gloss, very elastic film with excellent water and weather resisting qualities. Can be sprayed full body.			
	Dipping	01735	Red	\$1.25 Returnable Drums
2	Our highest grade pale medium bodied dipping implement varnish. Reduce 15 per cent to 20 per cent with petroleum naphtha. Dries dust free in 4 to 5 hours, to handle or re-coat in 24 hours. Produces high gloss, tough and very elastic film, having excellent water and weather resisting qualities. Especially recommended when long life and water resisting qualities are required.			
	Brushing	0993	Red	\$1.15 Returnable Drums
	A fairly pale heavy bodied implement varnish having good flowing qualities. Dries dust free in 3 to 4 hours, to handle or re-coat in 12 to 18 hours, with a high full gloss, good elasticity and very good water resisting qualities. Reduce 10 per cent with petroleum naphtha for spraying.			
3	Dipping	01743	Red	\$1.05 Returnable Drums
	A very pale heavy bodied varnish, will stand 25 per cent to 50 per cent reduction with petroleum naphtha. Dries dust free in 3 to 4 hours, to handle or re-coat in 18 to 24 hours, with a high gloss, good elasticity and water resisting qualities. An excellent type of varnish, representing unusual value. One of the best general utility varnishes.			
	Brushing	01743	Red	\$0.85 Returnable Drums
3	A pale medium bodied varnish, having good flowing qualities, dries dust free in 3 to 4 hours, to handle or re-coat over night, with a good gloss, fair elasticity and water resisting qualities. Can be sprayed full body.			
	Dipping	01743	Red	\$0.85 Returnable Drums
	A pale heavy bodied varnish, will take 25 per cent reduction with petroleum naphtha, dries dust free in 3 to 4 hours, to handle or re-coat in 18 to 24 hours, having a good gloss, fair elasticity and water resisting properties.			

Best results in flowing, leveling and drying are obtained when varnish is used at normal room temperature (70 degrees).

NOTE: Where large contracts over extended period are involved, get in touch with your MSD Manager.

Industrial Varnish Guide

TOY, NOVELTY AND IMPLEMENT MANUFACTURERS

This chart is prepared to simplify the Representative's task of selecting the proper materials for a given surface when calling on Toy, Novelty or Implement Manufacturers. The materials are divided into classes and subdivided according to method of application with the Rex number and price given in each case.

CLASS	Method of Application	PRODUCT (Rex Number)	PRICE
1	Brushing	01732	\$1.25 Bbls.
	Best grade pale medium bodied implement varnish, easy brushing and exceptional flowing qualities. Dries dust free in 3 to 4 hours, hard enough to handle or recoat over night, producing a high gloss, very elastic film with excellent water and weather resisting qualities. Can be sprayed full body.		
	Dipping	01735	\$1.25 Bbls.
2	Our highest grade pale medium bodied dipping implement varnish. Reduce 15% to 20% with petroleum naphtha. Dries dust free in 4 to 5 hours, to handle or recoat in 24 hours. Produces high gloss, tough and very elastic film, having excellent water and weather resisting qualities. Especially recommended when long life and water resisting qualities are required.		
	Brushing	0993	\$1.05 Bbls.
	A fairly pale heavy bodied implement varnish having good flowing qualities. Dries dust free in 3 to 4 hours, to handle or recoat in 12 to 18 hours, with a high, full gloss, good elasticity and very good water resisting qualities. Reduce 10% with petroleum naphtha for spraying.		
3	Dipping	01703	\$1.05 Bbls.
	A very pale heavy bodied varnish, will stand 25% to 50% reduction with petroleum naphtha. Dries dust free in 3 to 4 hours, to handle or recoat in 18 to 24 hours, with a high gloss, good elasticity and water resisting qualities. An excellent type of varnish, representing unusual value. One of the best general utility varnishes.		
	Brushing	01738	\$.85 Bbls.
	A pale medium bodied varnish, having good flowing qualities, dries dust free in 2 to 3 hours, to handle or recoat over night, with a good gloss, fair elasticity and water resisting qualities. Can be sprayed full body.		
	Dipping	02061	\$.85 Bbls.
	A pale heavy bodied varnish will take a 25% reduction with petroleum naphtha, dries dust free in 3 to 4 hours, to handle or recoat in 18 to 24 hours, having a good gloss, fair elasticity and water resisting properties.		

Best results in flowing, leveling and drying are obtained when varnish is used at normal room temperature (70 degrees).

Note—Where large contracts over extended periods are involved, get in touch with your MSD Manager.

INDUSTRIAL VARNISH GUIDE—Continued

TRUNK MANUFACTURERS DRIVER COVERS

This chart is prepared to simplify the representative's task of selecting the proper material for use by Trunk Manufacturers. The varnishes are divided into classes with Rex numbers, characteristics and prices given in each case.

CLASS	PRODUCT	REX	LABEL	PRICE
1	No. 32	01732	NO	\$1.25 Non-Returnable Drums
	Should be sold where extreme waterproofness is essential. Also where government work is involved. Medium in color, sets to touch in 3 to 4 hours and hard over night (18 hours), is very elastic, dries with a good gloss and is satisfactory where normal print test is made (75 body).			
2	No. 64	02264	Red	\$1.20 Returnable Drums
	Standard with many trunk manufacturers. Medium pale in color, will dry dust free in 3 to 4 hours and hard over night. Is tough, elastic and dries with a high gloss. Stands up well under usual water and print tests (70 body).			
3	No. 93	02293	Red	\$1.15 Returnable Drums
	For general work. Dries dust free in 3 to 4 hours and hard over night (18 hours) with a high gloss. Pale in color, has good elasticity, waterproofness and stands severe print test (70 body).			

These varnishes should be reduced approximately 15 per cent for dip work—use full body for brush and spray. Petroleum Naphtha or No. 74 Reducer (0974) should be used.

INDUSTRIAL VARNISH GUIDE—Continued

DRAWER COATERS

The material shown below is primarily intended for sale to Furniture Manufacturers and allied trade for drawer work.

PRODUCT	REX	LABEL	PRICE
Clear Drawer Coater No. 89	01889	Red	\$1.10 Returnable Drums

A clear, light colored Spirit Varnish of medium body (75). Designed and furnished at this body to make it adaptable for both spray and brush application. If found necessary to add thinner, use 0974 or petroleum distillate. Air dries dust free or to touch in approximately 15 minutes; hard enough to sand, re-coat or handle in approximately 3 hours, producing a rich, velvety sheen. This coating has the toughness necessary to withstand the abuse to which it will be subjected. The fullness is satisfactory for one-coat work, although two coats will produce a smoother finish; the film will be free from odor and resists oil which may drop on it during the surfacing operations.

Drawers in furniture receive a finishing coat to make them more attractive and easier to clean. S-W Drawer Coaters produce a very satisfactory finish for considerably less money than Shellac. They are uniform in quality, clear and brilliant, smooth flowing, quick drying, hard and elastic, oil resistant and odorless.

Mahogany Drawer Coater No. 88	01888	Red	\$1.10 Returnable Drums
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For detailed descriptive matter, see above—except for color.

NOTE: Special colors furnished to meet the customer's standard on order for fifty gallons or more.

Industrial Varnish Guide

TRUNK MANUFACTURERS

This chart is prepared to simplify the Representative's task of selecting the proper material for use by Trunk Manufacturers. The varnishes are divided into classes with Rex numbers, characteristics and prices given in each case.

CLASS	PRODUCT (Rx Number)	PRICE
1	01732	\$1.25 Drums
	Should be sold where extreme waterproofness is essential. Also where government work is involved. Medium in color, sets to touch in three to four hours and hard over night (18 hours), is very elastic, dries with a good gloss and is satisfactory where normal print test is made (75 body).	
2	02264	\$1.20 Drums
	Standard with many trunk manufacturers. Medium pale in color, will dry dust free in three to four hours and hard over night. Is tough, elastic and dries with a high gloss. Stands up well under usual water and print tests (70 body).	
3	02293	\$1.15 Drums
	For general work. Dries dust free in three to four hours and hard over night (18 hours) with a high gloss. Pale in color, has good elasticity, waterproofness and stands severe print test (70 body).	

These varnishes should be reduced approximately 15 per cent for dip work—use full body for brush and spray. Petroleum Naphtha or No. 74 Reducer (0974) should be used.

INDUSTRIAL VARNISH GUIDE—Continued

SOLVENTS

The information on solvents contained in this Guide has been carefully prepared for the purpose of showing their comparative value and usage and for the guidance of our representatives in making their recommendations to the trade, especially where the sale and use of our materials is involved.

PRODUCT	REX	LABEL	PRICE
BENZINE		Red	\$0.40 Returnable Drums

A petroleum distillate meeting definite specifications for distillation and evaporation. It is lighter in gravity, evaporates quicker than 0974, and is not quite as good a solvent. Suitable only for dipping products where a short flow and heavy coating is desired. Should not be used in materials applied by brushing. Recommended for all insulating varnishes except the spirit varnishes, also air drying black japans and asphaltums. It is much better than ordinary gasoline which is not uniform in quality and solvent strength due to varying manufacturing methods. Benzine is generally used only in dipping products. Recommendations for its use except as noted above should be subject to trial. The specific gravity is .765 or 53 degrees Baume at 60 degrees Fahrenheit.

REDUCER No. 74	0974	NO	\$0.45 Non-Returnable Drums
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A petroleum distillate prepared especially for paint and varnish makers' use, which meets definite specifications for distillation, evaporation and solvent strength. It is heavier in gravity and evaporates slower than benzine. It is suitable for use in brushing materials and in products applied by dipping where longer flowing is desired. Recommended for use in black baking japans and the cheaper industrial paints, varnishes and enamels which are especially formulated to take this thinner and are so noted in the price list. It is not recommended for use in hard gum varnishes or enamels made from such varnishes, or outside house paints. The specific gravity is .784 or 48 1/2 degrees Baume at 60 degrees Fahrenheit.

UNIVERSAL THINNER	0261	NO	\$0.45 Non-Returnable Drums
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A scientifically blended solvent which has all the good properties of 0974 and in addition much greater solvent strength, being intermediate in this respect between 0974 and turpentine. It can be used in practically all industrial paints, varnishes and enamels with satisfactory results. The evaporation rate is suitable for brushing and long flow dipping materials. The use of Universal Thinner instead of other so-called turpentine substitutes will overcome trouble due to poor solvent strength. The specific gravity is .789 or 47 1/2 degrees Baume at 60 degrees Fahrenheit.

INDUSTRIAL VARNISH GUIDE—Continued

SOLVENTS—Continued

NAME	RED	LABEL	PRICE
TURPENTINE		NO	MARKET PRICE

Turpentine is generally recommended as the best solvent for outside house paints and varnishes made from very hard gums. It is the best solvent for such gums and is required to hold the varnish in perfect solution. Turpentine gives the best penetration in resinous wood, and in repainting acts to soften the old hardened paint film, causing better adhesion which is an important factor in outside house painting. It has a slight drying action on linseed oil, and SWP and other materials in which it is used are so formulated to take advantage of this effect. It does not give as good flow as Universal Thinner, and the price is much higher. The specific gravity is .867 or 31 1/4 degrees Baume at 60 degrees Fahrenheit.

ALCOHOL	RED	MARKET PRICE
ALCOHOL	RED	MARKET PRICE

The gums used in spirit varnishes are complex substances and sometimes are not entirely soluble in alcohol. When denatured alcohol is used for thinning, part of the gum may break out of solution. 02900 is a scientifically blended solvent which holds all of the gum in solution, and its use will prevent the trouble which might be experienced with denatured alcohol. 02900 is not recommended for thinning shellac. The specific gravity is .841 or 36 1/4 degrees Baume at 60 degrees Fahrenheit.

ALCOHOL	RED	MARKET PRICE
ALCOHOL	RED	MARKET PRICE

Denatured alcohol is recommended as a thinner for shellacs. It is sometimes used for thinning spirit varnishes, but is not as satisfactory for this purpose as 02900. There are various Government formulae for denatured alcohol. A special formula is used in the manufacture of our shellacs and spirit varnishes, but this cannot be resold without special license. The formula which is readily available and generally used is Government formula No. 9 Completely Denatured Alcohol. The specific gravity is .818 or 41 degrees Baume at 60 degrees Fahrenheit.

NOTE: All reducers should be added slowly and stirred in thoroughly while being added. The temperature of both the material and reducer should be at least 60 degrees Fahrenheit, preferably higher.

ALCOHOL

FROSTINE FINISHES

The name Frostine is descriptive of a pleasing frosted or crystalline finish that has come to be standard for many metal surfaces such as radio cabinets, cameras, optical instruments and office appliances. The newest and most striking use of Frostine is on toy trains and similar small metal toys. Frostine finishes are as durable and serviceable as they are attractive. They stand up exceedingly well on objects handled as freely as cameras, comptometers, etc.

The name is ours—Sherwin-Williams Frostine—and you will hear it mentioned wherever this type of finish is discussed. The characteristic Frostine effect is obtained by special manipulation of the material as described in detail under directions for use.

Frostine Finishes are furnished for both one coat and two coat systems. The two coat system produces the richer finish and has greater depth of tone. The first coat is Frostine Undercoater in the desired color and the second coat is Frostine Clear.

Customers who display a name or applied design in decalcomania apply these designs over the Undercoater and finish with Frostine Clear. The designs must of course be applied to a smooth surface.

The one coat system is used where lower cost is required. Frostine for this system is furnished pigmented, and of course offers a very simple system.

FROSTINE UNDERCOATERS

Frostine Undercoaters are intended to be reduced with Reducer No. 74 or with naphtha as follows: Brushing, 33 1/4 per cent; spraying, 50 per cent; dipping, 75 per cent. The material will air-dry over night or will bake in two hours at 180 degrees F. Frostine should not be applied until the Undercoater is thoroughly dry.

Sherwin-Williams Frostine Clear is easier to handle than most finishes of a similar nature which are available. The crystallization is more uniform and is more dependable. We have sold Frostine Finishes for years and, naturally, they have had the benefit of close observation for this period of time in actual use under all kinds of shop conditions.

Directions for the application and handling of the finishing coat of Frostine Clear as applied over Frostine Undercoaters are as follows:

- The material is intended to be sprayed without reduction at 45 lbs. air pressure.
- The size of the crystals is controlled by the thickness of the coating applied, not by the air pressure used in application. For a small crystal spray on a light coat increasing the amount sprayed on for a larger crystal.
- Crystallization is produced by placing the parts in a fanned oven. In ordinary shop practice parts are placed directly in the oven from the spray booth.
- When the oven is filled, close all drafts. Turn the pilot light high, or if there is no pilot, turn the heating burner low. Leave the doors slightly ajar. In an electric oven or one baking by indirect heat, introduce a small gas burner for fouling purpose. Foul for fifteen minutes, at the end of which time crystallization will be complete.
- Open drafts wide, close the doors and run the heat up to 250 degrees and hold at that point for full forty-five minutes.

It will be observed that the crystallization of Frostine Clear is the result of the action of the partially burned gas upon the wet film. The practice outlined above is very simple and is the result of much experimentation. With the dependability of the material itself and the elimination of every unnecessary operation in handling, the manufacturer will be able to finish his product economically in this most attractive type of finish.

In two coat work the color will be subject to slight variation if a heavy coat of Frostine Clear is applied.

	1a	5a	8b1a
Medium Yellow (22455).....	2 50	2 40	2 25
Orange (22217).....	2 50	2 40	2 35
Chinese Red (23040).....	2 35	2 25	2 10
Carnelian Red (22456).....	2 35	2 25	2 10
Fern Green (22457).....	2 50	2 40	2 35
Berkshire Green (22222).....	2 70	2 60	2 45
Sapphire Blue (22229).....	2 35	2 25	2 10
Italian Blue (22458).....	2 35	2 25	2 10
Cocoa Brown (22459).....	2 50	2 40	2 25
Olive Green (22460).....	2 35	2 25	2 10
Radio Brown (22504).....	2 50	2 40	2 25
Chocolate (18149).....	2 60	2 50	2 35
Black (6985).....	2 00	1 90	1 75
Frostine Clear (01046).....	1 85	1 75	1 60

NOTE: Where Frostine Finish has become marred or worn, it may be repaired according to directions under One-Coat Frostine, only that it is necessary to use a One-Coat Frostine of the same color.

ONE-COAT FROSTINE FINISHES

The following represents the line-up of colors now available in One-Coat Frostine Finishes:

	1s	4s	Drums
Medium Yellow (02343)	1.85	1.85	1.65
Orange (02329)	2.25	2.15	1.95
Chinese Red (02326)	2.15	2.05	1.85
Canadian Red (02327)	2.15	2.05	1.85
Fern Green (02346)	1.85	1.85	1.65
Berkshire Green (02325)	1.85	1.85	1.65
Sapphire Blue (02330)	2.05	1.85	1.75
Italian Blue (02347)	1.85	1.85	1.65
Cocoa Brown (02345)	1.85	1.75	1.55
Olive Green (02344)	1.85	1.70	1.60
Radio Brown (02340)	2.05	1.85	1.75
Chocolate (02341)	2.05	1.85	1.75
Black (02321)	1.85	1.85	1.35

Our One-Coat Frostine Finishes correspond closely with the effects secured with the Frostine Undercoaters and Frostine Clear combination. Frostine Finish Color Card, CC-258, should be used as a guide in the sale of both types.

The application procedure recommended for their use is as follows:

A convenient spraying pressure is 50-70 lbs. through a standard spray gun. Heavier air pressure is required in spraying the One-Coat material as compared with Frostine Clear due to higher viscosity and the need for securing a perfectly even distribution of the material over the work. Spray the Frostine full body as evenly as possible to a film just thick enough to cover. Too thick a coat will result in very large, glassy crystals or else a muddy effect; and too thin a coat will yield very small, lifeless but fairly well formed crystals.

Transfer the sprayed object to a direct heat gas oven which is heated to 175 degrees F., and whose ventilating ducts are partly closed so as to insure the presence of enough gases to check the wet film. This first baking operation is the fouling procedure, and the length of time required is generally dependent on the size of the oven. For example, a small size factory oven will accomplish the results in five to fifteen minutes, whereas a larger oven will take a longer time, say thirty to forty-five minutes or even an hour. This, however, must be determined in the individual case.

After fouling, the articles may be left in the oven at 175 degrees F., and the baking continued at the temperature for four to five hours. Or, the temperature may be increased to any point not exceeding 250 degrees F., and the duration of the bake will be one and one-half to three hours. These figures are only suggestive as in many cases the baking time and temperature will have to fit into an individual production schedule.

The most important points in Frostine finishing are: Practice and a regularity in schedule so that each finished object is handled exactly like each other object in the lot to be finished.

DIRECTIONS FOR TOUCHING UP ONE-COAT MARRED FROSTINE

The following information is furnished for use in dealing with this question which may come up with certain customers using this type of finish:

The scratch or mar should be cleaned out with some sharp instrument leaving a clean cut edge all the way around, and then the material applied with a pencil brush. Allow to dry about five minutes and then hold the patch over a small yellow gas flame, candle flame, or burning match allowing the burnt gases from the flame to play on it until the varnish has cracked giving the desired effect. Do not re-bake the article but allow about twenty-four hours at room temperature to harden.

For light surface mars where the Frostine has simply been scratched white, Polishing Oil should be applied with a soft rag and then just wiped off dry.

Write your MSD Managers about any special proposition.

INDUSTRIAL VARNISH GUIDE

DRAWER COATERS

The material shown below is primarily intended for sale to Furniture Manufacturers and allied trade for drawer work.

PRODUCT	REX	LABEL	PRICE
Clear Drawer Coater No. 89	01889	Red	\$1.10 Drums

A clear, light colored spirit Varnish of medium body (75). Designed and furnished at this body to make it adaptable for both spray and brush application. If found necessary to add thinner, use 0974 or petroleum distillate. Air dries dust free or to touch in approximately 15 minutes; hard enough to sand, recoat or handle in approximately three hours, producing a rich, velvety sheen. This coating has the toughness necessary to withstand the abuse to which it will be subjected. The fullness is satisfactory for one-coat work, although two coats will produce a smoother finish; the film will be free from odor and resists oil which may drop on it during the surfacing operations.

Drawers in furniture receive a finishing coat to make them more attractive and easier to clean. S-W Drawer Coaters produce a very satisfactory finish for considerably less money than Shellac. They are uniform in quality, clear and brilliant, smooth flowing, quick drying, hard and elastic, oil resistant and odorless.

Mahogany Drawer Coater No. 88	01888	Red	\$1.10 Drums
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For detailed descriptive matter, see above—except for color.

NOTE: Special colors furnished to meet the customer's standard on orders for fifty gallons or more.

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SHERWIN-WILLIAMS' PRODUCTS**FROSTINE FINISHES**

The name Frostine is descriptive of a pleasing frosted or crystalline finish that has come to be standard for many metal surfaces such as radio cabinets, cameras, optical instruments and office appliances. The newest and most striking use of Frostine is on toy trains and similar small metal toys. Frostine finishes are as durable and serviceable as they are attractive. They stand up exceedingly well on objects handled as freely as cameras, comptometers, etc.

The name is ours—Sherwin-Williams Frostine—and you will hear it mentioned wherever this type of finish is discussed. The characteristic Frostine effect is obtained by special manipulation of the material as described in detail under directions for use.

Frostine Finishes are furnished for both one coat and two coat systems. The two coat system produces the richer finish and has greater depth of tone. The first coat is Frostine Undercoater in the desired color and the second coat is Frostine Clear.

Customers who display a name or applied design in decalcomania apply these designs over the Undercoater and finish with Frostine Clear. The designs must of course be applied to a smooth surface.

The one coat system is used where lower cost is required. Frostine for this system is furnished pigmented, and of course offers a very simple system.

FROSTINE UNDERCOATERS

Frostine Undercoaters are intended to be reduced with Reducer No. 74 or with naphtha as follows: Brushing, 33 1/2%; spraying, 50%; dipping, 75%. The material will air-dry overnight or will bake in two hours at 180 degrees F. Frostine should not be applied until the Undercoater is thoroughly dry.

Sherwin-Williams Frostine Clear is easier to handle than most finishes of a similar nature which are available. The crystallization is more uniform and is more dependable. We have sold Frostine Finishes for years and, naturally, they have had the benefit of close observation for this period of time in actual use under all kinds of shop conditions.

Directions for the application and handling of the finishing coat of Frostine Clear as applied over Frostine Undercoaters are as follows:

- The material is intended to be sprayed without reduction at 45 lbs. air pressure.
- The size of the crystals is controlled by the thickness of the coating applied, not by the air pressure used in application. For a small crystal spray on a light coat increasing the amount sprayed on for a larger crystal.
- Crystallization is produced by placing the parts in a fouled oven. In ordinary shop practice parts are placed directly in the oven from the spray booth.
- When the oven is filled, close all drafts. Turn the pilot light high, or if there is no pilot, turn the heating burner low. Leave the doors slightly ajar. In an electric oven or one heating by indirect heat, introduce a small gas burner for fouling purposes. Foul for fifteen minutes, at the end of which time crystallization will be complete.
- Open drafts wide, close the doors and run the heat up to 250 degrees and hold at that point for full forty-five minutes.

It will be observed that the crystallization of Frostine Clear is the result of the action of the partially burned gas upon the wet film. The practice outlined above is very simple and is the result of much experimentation. With the dependability of the material itself and the elimination of every unnecessary operation in handling, the manufacturer will be able to finish his product economically in this most attractive type of finish.

In two-coat work the color will be subject to slight variation if a heavy coat of Frostine Clear is applied.

	1 lb.	2 lb.	5 lb.	10 lb.	25 lb.	50 lb.	100 lb.
Medium Yellow (22455)	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Orange (22217)	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Chinese Red (22040)	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Carmelian Red (22450)	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Fern Green (22457)	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Berkshire Green (22222)	2.70	2.60	2.60	2.60	2.60	2.60	2.60
Sapphire Blue (22220)	2.25	2.25	2.25	2.25	2.25	2.25	2.25
Italian Blue (22458)	2.35	2.25	2.25	2.25	2.25	2.25	2.25
Cocoa Brown (22459)	2.40	2.40	2.40	2.40	2.40	2.40	2.40
Olive Green (22460)	2.35	2.25	2.25	2.25	2.25	2.25	2.25
Radio Brown (22504)	2.60	2.40	2.40	2.40	2.40	2.40	2.40
Chocolate (18149)	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Black (6985)	2.00	1.80	1.80	1.80	1.80	1.80	1.80
Frostine Clear (01046)	1.85	1.75	1.75	1.75	1.75	1.75	1.60

Note—Where Frostine Finish has become marred or worn, it may be repaired according to directions under One-Coat Frostine, only that it is necessary to use a One-Coat Frostine of the same color.

SHERWIN-WILLIAMS PRODUCTS

ONE-COAT FROSTINE FINISHES

The following represents the line-up of colors now available in One-Coat Frostine Finishes:

Finish	1 lb.	5 lb.	Drums
Medium Yellow (02343)	1.95	1.85	1.65
Orange (02329)	2.25	2.15	1.85
Chinese Red (02326)	2.15	2.05	1.85
Carmelian Red (02327)	2.15	2.05	1.85
Fern Green (02346)	1.85	1.85	1.65
Berkshire Green (02325)	1.85	1.85	1.65
Sapphire Blue (02330)	2.05	1.95	1.75
Italian Blue (02347)	1.85	1.85	1.65
Cocoa Brown (02345)	1.85	1.75	1.55
Olive Green (02344)	1.80	1.70	1.50
Radio Brown (02340)	2.05	1.95	1.75
Chocolate (02341)	2.05	1.95	1.75
Black (02321)	1.85	1.85	1.35

Our One-Coat Frostine Finishes correspond closely with the effects secured with the Frostine Undercoaters and Frostine Clear combination. Frostine Finish Color Card, CC-258, should be used as a guide in the sale of both types.

The application procedure recommended for their use is as follows:

A convenient spraying pressure is 50-70 lbs. through a standard spray gun. Heavier air pressure is required in spraying the One-Coat material as compared with Frostine Clear due to higher viscosity and the need for securing a perfectly even distribution of the material over the work. Spray the Frostine full body as evenly as possible to a film just thick enough to cover. Too thick a coat will result in very large, glassy crystals or else a muddy effect; and too thin a coat will yield very small, lifeless but fairly well formed crystals.

Transfer the sprayed object to a direct heat gas oven which is heated to 175 degrees F., and where ventilating ducts are partly closed so as to insure the presence of enough gases to check the wet film. This first baking operation is the fouling procedure, and the length of time required is generally dependent on the size of the oven. For example, a small size factory oven will accomplish the results in five to fifteen minutes, whereas a larger oven will take a longer time, say thirty to forty-five minutes or even an hour. This, however, must be determined in the individual case.

After fouling, the articles may be left in the oven at 175 degrees F., and the baking continued at the temperature for four to five hours. Or, the temperature may be increased to any point not exceeding 250 degrees F., and the duration of the bake will be one and one-half to three hours. These figures are only suggestive as in many cases the baking time and temperature will have to fit into an individual production schedule.

The most important points in Frostine finishing are: Practice and a regularity in schedule so that each finished object is handled exactly like each other object in the lot to be finished.

DIRECTIONS FOR TOUCHING UP ONE-COAT MARRED FROSTINE

The following information is furnished for use in dealing with this question which may come up with certain customers using this type of finish:

The scratch or mar should be cleaned out with some sharp instrument leaving a clean cut edge all the way around, and then the material applied with a pencil brush. Allow to dry about five minutes and then hold the patch over a small yellow gas flame, candle flame, or burning match allowing the burst gases from the flame to play on it until the varnish has cracked giving the desired effect. Do not re-bake the article but allow about 24 hours at room temperature to harden.

For light surface mars where the Frostine has simply been scratched white, Polishing Oil should be applied with a soft rag and then just wiped off dry.

Write your M&D Managers about any special propositions.

GENERAL SPECIALTY SALES DEPT.

Bulletin No. 77

November 26, 1926.

Subject: Liquid Roof Cement on Wood Shingles.

A few months ago a customer applied a pail of Liquid Roof Cement on wood shingles and the results naturally proved unsatisfactory. In other words, the film of cement cracked and peeled. Why? Because the shingles absorbed the oils in the cement causing the pitch to become lifeless and brittle.

In addition, warping of the shingles caused cracking of the coating at the laps. No liquid roof cement is a satisfactory coating for wood shingles and S-W Liquid Roof Cement is not recommended for use on wood shingles.

You will find complete instructions for repairing different types of roofs in form F-775, page eight of your Coal-Tar Products Portfolio.

Yours very truly,


H. Anderson

MANAGER
Gen'l Specialty Sales

AEG:ML
Full List
All Reps.

STOCKKEEPER.
THE SHERWIN-WILLIAMS CO.,
116TH & STEPHENSON AVE.,
CHICAGO, ILL

0007-SWP-000012041

MANUFACTURERS SALES DEPARTMENT

REPRESENTATIVE'S CONFIDENTIAL PRICE LIST

EFFECTIVE JULY 10, 1925
Subject to change without notice

AJAX INSULATING VARNISHES AND COMPOUNDS

TERMS:

Two per cent for cash ten days from
date of invoice, or sixty days net



THE SHERWIN-WILLIAMS CO.

ADMINISTRATION OFFICES AND FACTORY, CLEVELAND, OHIO
SALES OFFICES AND WAREHOUSES IN PRINCIPAL CITIES

VS2 (E) J25 951

0007-SWP-000012042

N13598.03

SHERWIN-WILLIAMS PRODUCTS

INSULATING VARNISHES

Ajax Clear Elastic Baking Varnish No. 16 (02016)

As extremely elastic and flexible varnish. Is oil, acid and water-proof. Has highest dielectric strength and longest life under heat. Will bake in from ten to twelve hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity 0.850. Thin with benzine. Intended for use where extreme flexibility and longest life under heat are required, such as on varnished cloth, large coils, wound and insulated before assembly, etc.

	1s	5s	bbls.	drums
Less than 50 gals	1 50	1 50	1 25	1 20
50 gals. or over	1 50	1 40	1 25	1 20
Electrical jobbers	1 40	1 30	1 15	1 10

Ajax Clear Quick Elastic Baking Varnish No. 14 (02014)

A very strong, tough varnish. Is oil, acid and water-proof. Has highest dielectric strength and maximum binding and cementing properties. Will bake in from eight to ten hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity 0.873. Thin with benzine. Intended for use where toughness and binding and cementing properties are required, such as on small D. C. armatures, etc. The most suitable varnish for general coil work, also oil-cooled transformers.

	1s	5s	bbls.	drums
Less than 50 gals	1 55	1 45	1 20	1 15
50 gals. or over	1 45	1 35	1 20	1 15
Electrical jobbers	1 35	1 25	1 10	1 05

Ajax Clear Quick Baking Varnish No. 17 (02017)

A hard, tough varnish which is oil, acid and water-proof. Has highest dielectric strength similar to No. 14 Varnish, but not quite as long life. Bakes in from six to eight hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity 0.870. Thin with benzine. Intended for use where quick baking is essential. A very satisfactory varnish for use on small D.C. armatures and other work where a quick baking, hard, tough varnish is required.

	1s	5s	bbls.	drums
Less than 50 gals	1 50	1 40	1 15	1 10
50 gals. or over	1 40	1 30	1 15	1 10
Electrical jobbers	1 30	1 20	1 05	1 00

Ajax Clear Air Drying and Baking Varnish No. 18 (02018)

A clear varnish, which is oil, acid and water-proof. Has high dielectric strength, similar to but not quite as long life as No. 17 Varnish. May either be baked or air dried. Bakes in from five to seven hours at 100 degrees Centigrade (212 degrees Fahrenheit), or will air dry in from eight to fourteen hours. Specific gravity 0.850. Thin with benzine. Intended for use where baking facilities are not available, or where an extremely quick baking varnish is necessary. A very satisfactory varnish for use on small D. C. armatures not subjected to very severe conditions of usage.

	1s	5s	bbls.	drums
Less than 50 gals	1 40	1 30	1 05	1 00
50 gals. or over	1 30	1 20	1 05	1 00
Electrical jobbers	1 20	1 10	95	90

Ajax Clear Air Drying Finishing Varnish No. 19 (02019)

A clear spirit finishing varnish. Similar in all respects to Ajax Black Air Drying Finishing Varnish No. 26, and is suitable where a clear varnish is preferable to black. Specific gravity 0.910

	1s	5s	bbls.
Less than 50 gals	1 85	1 75	1 50
50 gals. or over	1 75	1 65	1 50
Electrical jobbers	1 65	1 55	1 40

INSULATING VARNISHES—Continued

Ajax Black Elastic Baking Varnish No. 20 (02020)

An extremely elastic and flexible black varnish. Is oil, acid and water-proof. Has highest dielectric strength and longest life under heat. Will bake in from ten to twelve hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity .870. Thin with benzine. Intended for use where the most extreme conditions of service (exposure to oils, water and heating) are encountered. May be used on cloth, all types of coils, and on both large and small armatures.

	1s	5s	bbbl.	drums
Less than 50 gals.	1 50	1 40	---	---
50 gals. or over	1 40	1 30	1 15	1 10
Electrical jobbers	1 30	1 20	1 05	1 00

Ajax Black Plastic Baking Varnish No. 21 (02021) (New Formula)

A black varnish which dries with a plastic film. Is water-proof, acid-proof and fairly resistant to oils. Has highest dielectric strength and longest life under heat. Will bake in from ten to twelve hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity .865. Thin with benzine. Suitable for use on field and stator coils; also for use on large armatures and armature coils which are treated with varnish before assembly. Not recommended for use on small D. C. armatures.

	1s	5s	bbbl.	drums
Less than 50 gals.	1 30	1 20	---	---
50 gals. or over	1 20	1 10	85	80
Electrical jobbers	1 10	1 00	85	80

Ajax Black Plastic Baking Varnish No. 5 (02005) (Old Formula)

A black varnish which dries with a plastic film. Is water-proof, acid-proof and fairly resistant to oils. Has highest dielectric strength and very long life under heat. Will bake in from ten to twelve hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity 0.870. Thin with benzine. Suitable for use on field and stator coils; also for use on large armatures and armature coils which are treated with varnish before assembly. Not recommended for use on small D. C. armatures.

	1s	5s	bbbl.	drums
Less than 50 gals.	1 25	1 15	---	---
50 gals. or over	1 15	1 05	90	85
Electrical jobbers	1 05	95	80	75

Ajax Black Semi-Plastic Baking Varnish No. 22 (02022)

A black varnish which dries with a semi-plastic film. Is water-proof, acid-proof and fairly resistant to oils. Has highest dielectric strength and long life under heat. Will bake in from eight to ten hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity .865. Thin with benzine. Suitable for use on field and stator coils and all types of armatures and armature coils, except very high-speed armatures.

	1s	5s	bbbl.	drums
Less than 50 gals.	1 30	1 20	---	---
50 gals. or over	1 20	1 10	85	80
Electrical jobbers	1 10	1 00	85	80

Ajax Black Quick Baking Varnish No. 23 (02023)

A very hard, tough varnish. Is oil, acid and water-proof. Has highest dielectric strength. Similar to No. 20 Varnish, but is not quite so flexible and does not have as long life under heat. Will bake in from eight to ten hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity 0.865. Thin with benzine. Intended for use where a hard, tough, quick baking varnish is required. Suitable for use on field and stator coils, also large and small armatures.

	1s	5s	bbbl.	drums
Less than 50 gals.	1 45	1 35	---	---
50 gals. or over	1 35	1 25	1 10	1 05
Electrical jobbers	1 25	1 15	1 00	95

INSULATING VARNISHES—Continued

Ajax Black Extra Quick Baking Varnish No. 60 (02060)

A very quick baking semi-plastic black varnish which is acid and water-proof, but not oil-proof. Has fair life under heat. Intended for use on the stators of fractional HP motors and similar work where quick baking is essential. The baking time on coils, etc., is from two to four hours at 100 degrees Centigrade (212 degrees Fahrenheit) or it will dry in from six to twelve hours. Specific gravity .850. Thin with benzine.

	1s	5s	bbbl.	drums
Less than 50 gals.....	1 25	1 18	---	---
50 gals. or over	1 15	1 05	80	85
Electrical jobbers.....	1 05	95	80	75

Ajax Black Air Drying Varnish No. 25 (02025)

A black air drying varnish which dries with a fairly hard film. Has excellent insulating properties. Is acid-proof and water-proof, but is not thoroughly oil-proof. Will air dry in about one hour, but requires from four to eight hours to dry in the interior of a coil. Specific gravity 0.855. Thin with benzine. Intended for use where baking facilities are not available, or where longest life under heat and elasticity are not required. Suitable for field and stator coils and all types of armatures except small high-speed armatures. An ideal varnish for general repair work.

	1s	5s	bbbl.	drums
Less than 50 gals.....	1 15	1 05	---	---
50 gals. or over	1 05	95	80	75
Electrical jobbers.....	95	85	70	65

Ajax Black Air Drying Finishing Varnish No. 26 (02026)

A black spirit finishing varnish. Has good insulating properties. Is thoroughly oil and moisture-proof and produces a beautiful black finish. Will air dry to handle in about twenty minutes, but requires more time to dry if used in a coil. Specific gravity 0.910. Thin with denatured alcohol. Intended for use as a finishing coat to prevent absorption of lubricating oils and moisture. May also be used on motor frames, etc., as an enamel.

	1/2 gal. bottles	5 gal. kegs	bbbl.	drums
Less than 50 gals.....	2 10	1 80	---	---
50 gals. or over	2 00	1 70	1 55	---
Electrical jobbers	1 90	1 60	1 45	---

Ajax Black Acid Resisting Insulating Paint No. 27 (02027)

A high gloss black quick drying paint. An excellent insulator, and resists the action of acid and acid fumes. Has no disagreeable odor. Air dries to handle in about thirty minutes. Specific gravity 0.865. Thin with benzine. Intended as a general purpose paint for meter boards, switchboards, conduits, splices, storage battery cases, work benches, battery rooms, etc.

	pts.	qts.	1s	5s	bbbl.	drums
Less than 50 gals.....	1 90	1 60	1 15	1 05	---	---
50 gals. or over	1 80	1 40	1 05	95	80	75
Electrical jobbers.....	1 70	1 30	95	85	70	65

Ajax Black Acid-Proof Paint No. 28 (02028)

A high gloss black quick drying paint which is especially designed to resist the action of sulphuric and other acids. It is thoroughly water-proof and a good insulator. Air dries in from one-half to one hour. Specific gravity 0.880. Thin with benzine or gasoline. Intended for painting battery cases, work benches and all surfaces exposed to sulphuric acid and acid fumes.

	1s	5s	bbbl.	drums
Less than 50 gals.....	1 10	1 00	---	---
50 gals. or over	1 00	90	75	70
Electrical jobbers	90	80	65	60

INSULATING VARNISHES—Continued

Clear Oil-Proof Core Plate Baking Varnish No. 29 (02029)

A clear varnish which produces a smooth oil-proof and tenacious coating. Intended for insulating the laminations of armature and field coils and oil-cooled transformers. Bakes in from ten to fifteen minutes at 150 degrees Centigrade (300 degrees Fahrenheit). Specific gravity 0.855. Thin with benzine.

	1s	5s	bbls.	drums
Less than 50 gals.....	1 50	1 40	---	---
50 gals. or over.....	1 40	1 30	1 15	1 10
Electrical jobbers.....	1 30	1 20	1 05	1 00

Ajax Clear Air Drying Oil-Proof Core Plate Varnish No. 30 (02030)

A clear spirit varnish which produces a smooth, oil-proof, tenacious coating. Has excellent insulating properties and is thoroughly oil-proof. Will air dry in from five to ten minutes. Specific gravity 0.910. Thin with denatured alcohol. Intended for insulating the core laminations of oil-cooled transformers, also armature and field coils.

	1s	5s	bbls.	drums
Less than 50 gals.....	1 85	1 75	---	---
50 gals. or over.....	1 75	1 65	1 50	1 40
Electrical jobbers.....	1 65	1 55	1 40	1 30

Ajax Black Air Drying Core Plate Varnish No. 31 (02031)

A black varnish which produces a smooth, tenacious coating, possessing high dielectric strength. Will air dry in from twenty to thirty minutes. Specific gravity 0.855. Thin with benzine or gasoline. Intended for insulating the core laminations of field stator and armature coils, also air-cooled transformers.

	1s	5s	bbls.	drums
Less than 50 gals.....	1 10	1 00	---	---
50 gals. or over.....	1 00	90	75	70
Electrical jobbers.....	90	80	65	60

Coillac (01164)

A black baking insulating varnish. Possesses good insulating properties, fair elasticity and flexibility. Is water and acid-proof, but not oil-proof. Bakes in five hours at 100 degrees Centigrade (212 degrees Fahrenheit). Specific gravity 0.860. A varnish which may be sold in competition with such materials as Armalac, etc. Thin with benzine.

	1s	5s	bbls.	drums
Less than 50 gals.....	1 20	1 10	---	---
50 gals. or over.....	1 10	1 00	85	80
Electrical jobbers.....	1 00	90	75	70

Lustrolac (01165)

A black, quick air-drying insulating varnish. Possesses good insulating properties, fair elasticity and flexibility. Is water and acid-proof, but not oil-proof. Air dries in from four to six hours. Specific gravity 0.898. A varnish which may be sold in competition with such material as Enamelac, etc. Thin with benzine.

	1s	5s	bbls.	drums
Less than 50 gals.....	1 15	1 05	---	---
50 gals. or over.....	1 05	95	80	75
Electrical jobbers.....	95	85	70	65

SHERWIN-WILLIAMS PRODUCTS

IMPREGNATING COMPOUNDS

Ajax Oil-Proof Impregnating Compound No. 100 (03100)

A solid compound possessing high dielectric and mechanical strength. It is chemically inert, impervious to moisture, and unaffected by mineral oil, either hot or cold. Drip point 125 degrees Centigrade (257 degrees Fahrenheit). Reduced with Compound Reducer No. 34. Can only be applied with a vacuum impregnating apparatus. Intended for the insulation of oil-cooled transformers.

	400-lb. steel drums
400 lbs. or over	24 per lb.
Electrical jobbers	23 per lb.

Ajax Oil-Proof Impregnating Compound No. 109 (03109)

A solid compound identical in every respect to No. 100 Compound except that sufficient reducer has been added at the time of manufacture to lower the melting point to about 100 degrees Centigrade (212 degrees Fahrenheit), which is the melting point most commonly used.

	400 lb. drums
400 lbs. or over	22
Electrical jobbers	21

Ajax Black Impregnating Compound No. 113 (03113)

A black solid compound possessing high dielectric and mechanical strength. Is chemically inert, acid and water-proof. Drip point 125 degrees Centigrade (257 degrees Fahrenheit). Reduced with Compound Reducer No. 35. Can only be applied with vacuum impregnating apparatus. Intended for the insulation of air-cooled transformers, field and stator coils, etc.

	400-lb. steel drums
400 lbs. or over	06 1/2
Electrical jobbers	05 1/2

Ajax Filling or Sealing Compound No. 110 (03110)

A black solid compound which is very tough and adhesive. Is an excellent insulator and thoroughly water and acid-proof. Drip point 100 degrees Centigrade (212 degrees Fahrenheit). Applied by melting and pouring. Intended for filling in, sealing and insulating apparatus of various kinds, particularly automobile storage batteries.

	5-lb.	10-lb.	40-lb.	drums
Less than 400 lbs.	13 1/4	11 1/2	10	—
400 lbs. or over	12 1/4	10 1/2	09	06 1/4
Electrical jobbers	11 1/2	09 1/2	08	05 1/4

Ajax Pothead Compound No. 111 (03111)

A black plastic solid compound which is very adhesive. Possesses high dielectric strength; is chemically inert and thoroughly water-proof. Has a very low coefficient of expansion and contraction, and will withstand extremes of heat or cold without cracking. Drip point 85 degrees Centigrade (185 degrees Fahrenheit). Applied by melting and pouring. Intended for filling potheads and is especially suitable for use in extremely cold climates and closed type potheads.

	5-lb.	10-lb.	40-lb.	drums
Less than 400 lbs.	14	12	10 1/2	—
400 lbs. or over	13	11	09 1/2	07
Electrical jobbers	12	10	08 1/2	06

Ajax Pothead Compound No. 112 (03112)

Same as Pothead Compound No. 111, except that the melting point is higher, 105 degrees Centigrade (221 degrees Fahrenheit). Intended for use in inverted type potheads and in very hot climates.

	5-lb.	10-lb.	40-lb.	drums
Less than 400 lbs.	14	12	10 1/2	—
400 lbs. or over	13	11	09 1/2	07
Electrical jobbers	12	10	08 1/2	06

SHERWIN-WILLIAMS PRODUCTS

IMPREGNATING COMPOUND REDUCERS

Ajax Compound Reducer No. 34 (02034)

A non-oxidizing liquid reducer intended for use in Ajax Oil-Proof Impregnating Compound No. 100, to reduce the compound to any drip point desired, and also to maintain the compound at a constant drip point.

	5s	bbbls.	drums
Less than 50 gals.....	1 05	---	---
50 gals. or over.....	85	80	75
Electrical jobbers	85	70	65

Ajax Compound Reducer No. 35 (02035)

A non-oxidizing liquid reducer intended for use in Ajax Black Impregnating Compound No. 113, to reduce the compound to any drip point desired, also to maintain the compound at a constant drip point.

	5s	bbbls.	drums
Less than 50 gals.....	1 05	---	---
50 gals. or over.....	85	80	75
Electrical jobbers	85	70	65

Clear and Black Cloth Varnishes

We make a line of cloth varnishes, both clear and black. These varnishes are used in making varnished cambric and other forms of sheet insulation. The varnish is applied and baked by special machinery and the methods and requirements of the various manufacturers differ. Business of this character should be referred to the Varnish Sales Department for recommendations and prices.

Clear Ignition Cable Baking Varnishes

These are clear baking varnishes for use on ignition cable. Their most important characteristics are elasticity, flexibility and resistance to water and oils. Usually applied by special continuous baking machinery. The requirements of the various manufacturers differ and business of this character should be referred to the Varnish Sales Department for recommendations and prices.

Clear and Black Wire Enamels

These enamels are baking enamels designed for the insulation of copper magnet wire. Applied by special machinery, each manufacturer having his own particular method of applying and baking the enamel. Business of this character should be referred to the Varnish Sales Department for recommendations.

Red No. 36 (02036) For large wire.....	} Prices furnished on application
Red No. 58 (02053) For fine wire.....	
Black No. 37 (02037) For fine wire.....	
Reducer No. 75 (0675) For No. 37 Enamel.....	

NOTE—The specific gravities shown in this price list are computed at a temperature of 20 degrees Centigrade (68 degrees Fahrenheit). Corrections in specific gravity for variations in temperatures should be computed on the basis of .0007 for each degree Centigrade and .0004 for each degree Fahrenheit.

SHERWIN-WILLIAMS PRODUCTS

AJAX INSULATION GUIDE

The varnishes recommended for the various purposes represent the usual practice and the numbers are shown at the top of the spaces. Other varnishes may also be safely used, depending on whether the customer prefers clear or black, quick or long baking, etc., and alternative recommendations are given for this reason and shown at the bottom of the spaces and in the foot notes.

Type of Apparatus	Form Wound Coils	Armatures	Stators	Field Coils
Industrial Motors Large D. C.	No. 21 ----	*No. 20 *No. 16	---- ----	No. 113 Comp.
Industrial Motors Int. size D. C.	No. 21 No. 22	No. 23 No. 14	---- ----	No. 21 †No. 25
Fractional H. P. Motors D. C.	No. 23 No. 14	No. 23 No. 14	---- ----	†No. 22 †No. 25
Electric Ry. Motors D. C.	No. 21 ----	No. 23 No. 20	---- ----	No. 113 Comp.
Vacuum Cleaner Motors Universal.	---- ----	No. 17 No. 14	---- ----	†No. 25 †No. 22
Automotive Type Motors & Generators D. C.	---- ----	No. 17 No. 14	---- ----	†No. 25 †No. 22
Industrial Motors Large A. C.	No. 21 ----	---- ----	*No. 20 *No. 16	---- ----
Industrial Motors Int. size A. C.	No. 21 No. 22	---- ----	§No. 23 †No. 22	---- ----
Fractional H. P. Motors A. C.	---- ----	---- ----	§No. 23 †No. 22	---- ----
Average Repair Shop	No. 22 ----	No. 23 No. 14	No. 23 No. 14	†No. 22 †No. 25

*No. 23 or No. 14 may be used if quicker baking is necessary.

†Use No. 60 if very quick baking is necessary or No. 23 if oil-proofness is desired.

‡Use No. 25 if plain enameled wire coil.

§Use No. 14 if clear is preferred.

Use No. 26 over No. 21 and No. 22 for oil-proof finish.

Radio Coils, No. 17 or No. 18 if baked, No. 19 if air dried.

Oil Cooled Transformers, No. 109 Comp. or No. 14 Varnish.

SHERWIN-WILLIAMS PRODUCTS

AJAX INSULATING VARNISHES

CHARACTERISTICS OF BAKING VARNISHES

All are excellent insulators and are resistant to moisture and most acid and alkaline solutions, the longer baking varnishes being best in these respects. All are thinned with benzine.

No. of Varnish	Color	Baking Time, hrs. 100° C.	Character of Film	Rel. Heat Endur.	Oil Resist-ance	Gravity 20° C.
16	Clear	10 to 12	Elastic, flexible	1	Yes	.880
14	Clear	8 to 10	Tough, elastic	2	Yes	.873
17	Clear	6 to 8	Hard, tough	4	Yes	.870
18	Clear	5 to 7	Hard	5	Yes	.850
20	Black	10 to 12	Elastic, flexible	1	Yes	.870
21	Black	10 to 12	Plastic, flexible	2	No	.865
22	Black	8 to 10	Semi-plastic	4	No	.865
23	Black	8 to 10	Hard, tough	3	Yes	.865
60	Black	2 to 4	Semi-plastic	6	No	.860

CHARACTERISTICS OF AIR DRYING VARNISHES

No. 18 is an oil type, No. 25 and No. 27 are asphaltic type and No. 19 and No. 26 are spirit type varnishes.

No. of Varnish	Color	Drying Time, Hrs.	Character of Film	Rel. Heat Endur.	Oil Resist-ance	Gravity 20° C.	Solvent
18	Clear	8 to 14	Hard, tough	1	Yes	.850	Benzine
19	Clear	20 min.	Very hard	4	Yes	.910	Alcohol
25	Black	4 to 8	Semi-plastic	2	No	.855	Benzine
27	Black	3 to 5	Semi-plastic	3	No	.865	Benzine
26	Black	20 min.	Very hard	4	Yes	.910	Alcohol