

PAINTING SPECIFICATIONS



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SECTION A • PART II • MATERIALS

12. GENERAL

All material for painting shall be delivered at the building in unbroken packages, leaving the manufacturer's label undisturbed, and shall be used without adulteration.

The following materials are named in these specifications: White lead, colors in oil, linseed oil, Lead Mixing Oil, putty, wall primer, turpentine, zinc, shellac, shellac varnish, putty, and red lead.

13. MIXING

All paint shall be mixed in the job in a manner to secure the proper incorporation of the ingredients and is conformity with formulas as given hereunder.

14. MATERIALS

- (a) White Lead—All white lead shall be pure white lead of Dutch Boy brand which conforms to the latest specifications of the American Society for Testing Materials.
- (b) Red Lead—All red lead shall be pure red lead of Dutch Boy brand which conforms to the latest specifications of the American Society for Testing Materials.
- (c) Colors in Oil—All colors in oil shall be of Dutch Boy brand.
- (d) Linseed Oil—All linseed oil shall be pure linseed oil of Dutch Boy brand which conforms to the latest specifications of the American Society for Testing Materials.

(e) Lead Mixing Oil—All lead mixing oil shall be Dutch Boy Lead Mixing Oil.

(f) Puttying Oil—All puttying oil shall be Dutch Boy Puttying Oil.

(g) Wall Primer—All wall primer shall be Dutch Boy wall primer.

(A) Turpentine—All turpentine shall be pure gum spirits of turpentine or pure steam-distilled turpentine and shall conform to the latest specifications of the American Society for Testing Materials.

(C) Shellac—All shellac shall be pure shellac of Dutch Boy brand which conforms to Type I of Federal Specifications for Liquid paint dries TT-D-461.

(D) Varnish—All varnish shall be the best grade of clear varnish, the product of an approved manufacturer and suitable for mixing with white lead as specified.

(E) Shellac Varnish—All shellac varnish shall be free from sand and composed of pure gum shellac cut in pure denatured alcohol, using four pounds of gum to the gallon.

(F) Putty—Putty shall be composed of pure white lead and whiting, mixed with pure linseed oil to proper consistency, and shall conform to white lead whiting putty, Class B, of the latest specifications of the American Society for Testing Materials. For metal surfaces, the pigment may include 10% powdered litharge.

SECTION B • APPLICATION

1. PAINTING EXTERIOR WOOD & SHINGLES

New Surfaces

- (a) (Have list and describe surfaces to be painted.)
- (b) Sides and window casings, moldings, etc. shall be cleaned to remove loose scales, dirt, etc. All surfaces shall be free from grease, oil, etc.
- (c) After painting coat is dry, loose and empty cracks shall receive one coat of shellac varnish brushed out then and all cracks, nail holes, etc. shall be pointed with white lead putty.
- (d) All painting work shall be allowed to dry from four to six days before the next coat is applied.
- (e) All surfaces, except shingles, shall be primed with Formula No. 1 and receive two additional coats, using Formula No. 2 and No. 3, respectively.
- (f) Wood shingles shall be primed with Formula No. 4 and receive two additional coats, using Formula No. 5 for the second coat and Formula No. 6, glass finish; or 7, for finish, for the finishing coat.
- (g) Where colors other than white are to be used, the necessary tinting materials shall be added to the first two coats of paint. (Specifications of colors and where they are to be used should be noted here.)

Repainting

- (a) (Have list and describe surfaces to be painted.)
- (1) If any portions of old paint must be removed and surface primed, have list and describe such surfaces and their treatment.)
- (2) After the first coat has dried sufficiently, moldings, casings, etc. shall be primed with white lead putty.
- (b) All painting work shall be allowed to dry from four to six days before the next coat is applied.
- (c) All surfaces, except shingles, shall receive two coats of paint, using Formula No. 5 and No. 6, respectively.
- (d) Wood shingles that are to be repainted shall receive two coats of paint, using Formula No. 9 for the first coat and Formula No. 6 glass finish; or 7, for finish for the finishing coat.
- (e) Where colors other than white are to be used, the necessary tinting materials shall be added to both coats of paint. (Specifications of colors and where they are to be used should be noted here.)

FORMULAS

Formula	Formula No. 1	Formula No. 2	Formula No. 3	Formula No. 4	Formula No. 5	Formula No. 6	Formula No. 7	Formula No. 8	Formula No. 9
Dutch Boy white lead	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.
Dutch Boy Puttying Oil	4 gals.	1 1/2 gals.	3/4 gal.	4 gals.	2 gals.	2 1/2 gals.	2 1/2 gals.	2 gals.	2 gals.
Pure turpentine	2 gals.	1 1/2 gals.	1 gal.	2 gals.	1 gal.	1 gal.	1 gal.	2 gals.	2 gals.
Dutch Boy Shellac	1 gal.	1 gal.	1 gal.	1 gal.	1 gal.	1 gal.	1 gal.	1 gal.	1 gal.
Colors of other product As to amount for all 1 coat	0%	0%	0%	0%	0%	0%	0% to 7%	7%	7%

NOTE: FORMULAS—These formulas are based on the use of soft pure white lead. If heavy white is used, add 1 quart of turpentine to all formulas except No. 2. FORMULA NO. 9—Is based on all a good, and does not call for a formula.

DUTCH BOY PAINTING SPECIFICATIONS

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Two-Coat Painting on New Exterior Wood*

- (a) (How far and describe surfaces to be painted.)
- (p) Doors and window casings, moldings, etc. shall be painted to or above frame edges left in casing material. All surfaces shall be free from shingles, splinters, etc.
- (q) Before priming coat is applied, knots and sappe marks shall receive one coat of shellac varnish thinned out thin.
- (r) After priming coat is dry, all cracks, nail holes, etc. shall be puttied with clear lead putty.
- (s) All priming work shall be allowed to dry from four to six days before the next coat is applied.
- (t) All surfaces shall receive two coats of paint, using Formulas Nos. 10 and No. 11, respectively.
- (u) Where colors other than white are to be used, the necessary staining materials shall be added to the last coat of paint. (Regardless of colors and where they are to be used should be stated here.)

Material	Formula No. 10	Formula No. 11
Lead by white lead	100 lb.	100 lb.
Shell by lead oil	3 1/2 gal.	3 1/2 gal.
Pure turpentine	1/2 gal.	1/2 gal.
Thin varnish	1/2 gal.	1/2 gal.
Shell by lead oil	1 gal.	1 gal.
Shell by zinc oxide	1/2 gal.	1/2 gal.
Colors of paint produced	6 1/2	6 1/2
24 ft. covered per gal. 1 coat	600	700

HEAVY PAINTS. Above formulas are based on the use of white lead. If heavy paint is used, add 1 quart of turpentine to all formulas except No. 11. If leaded linseed oil is used, use one quart of turpentine for each gallon of oil.

THEY ARE NOT STRONGLY RECOMMENDED. In these cases of paint as used, however, for the most work obtained, the best choice of staining materials should be used.

2. PAINTING BRICK, STUCCO, STONE & CONCRETE

Brick

- (a) (How far and describe surfaces to be painted.)
- (b) Unpainted Brick—All Types—shall be brushed vigorously with a wire brush to remove efflorescence or other foreign substances. If any mortar has become loose or damaged, all such places shall be pointed with mortar before paint is applied. After priming, small defects in the surface should be corrected with putty.
- (c) Unpainted Brick—All Types—which has not been allowed to age for a period of six months or longer, shall be treated with a solution made by dissolving two pounds of zinc sulphate in one gallon of water. After the zinc sulphate solution has been applied, sufficient time shall be allowed for drying before priming.
- (d) Unpainted Brick—Common Type—shall be primed with Formula No. 12, and shall receive two additional coats, using Formula No. 12 for the second coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat.
- (e) Unpainted Brick—Face or Standard Type—shall be primed with Formula No. 16 and shall receive two additional coats, using Formula No. 17 for the second coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat.
- (f) Previously Painted Brick—All Types—if previously painted with properly designed all paint shall be dry brushed before priming. If the old paint is blistered, cracking or scaling, the surface shall be brushed vigorously with a wire brush before priming. Any loose spots, where previous paint has been completely removed shall receive a priming coat, using Formula No. 10.
- The surface shall then receive two coats of paint, using Formula No. 10 for the first coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat. (If the old paint was a water paint, the entire surface shall be brushed vigorously with a wire brush before priming.)
- The surface shall then receive three coats of paint, using Formula No. 10 for the priming coat, followed by Formula No. 19 for the second coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat.

- (a) (If brick is to be laid, it should be so specified here.)
- (b) Where colors other than white are to be used, the necessary staining materials shall be added to the last two coats of paint. (Colors and where they are to be used should be stated here.)

Stucco, Stone and Concrete

- (a) (How far and describe surfaces to be painted.)
- (b) Unpainted Stucco or Concrete—which has not been allowed to age for a period of six months or longer, shall be treated as specified in Section 3(c).
- (c) Unpainted Exterior Stucco, Stone or Concrete Surfaces—shall be primed with Formula No. 12 and shall receive two additional coats, using Formula No. 19 for the second coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat.
- (d) Previously Painted Stucco, Concrete, or Stone Surfaces—if previously painted with properly designed all paint, shall be dry brushed before priming. If the old paint is blistered, cracking or scaling, the surface shall be brushed vigorously with a wire brush before priming. Any loose spots, where previous paint has been completely removed shall receive a priming coat, using Formula No. 10. The surface shall then receive two coats of paint, using Formula No. 10 for the first coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat.
- If the old paint was a water paint, the entire surface shall be brushed vigorously with a wire brush before priming.
- The surface shall then receive three coats of paint, using Formula No. 10 for the priming coat, followed by Formula No. 19 for the second coat and Formula No. 14, for finish; or 15, glass finish; for the finishing coat.
- (e) Interior Brick, Stucco, Stone or Concrete Surfaces—should be painted the same as exterior places. See Page 6.
- (f) Where colors other than white are to be used, the necessary staining materials shall be added to the last two coats of paint. (Colors and where they are to be used should be stated here.)

Material	Formula No. 12	Formula No. 13	Formula No. 14	Formula No. 15	Formula No. 16	Formula No. 17	Formula No. 18	Formula No. 19
Shell by white lead	100 lb.	100 lb.	100 lb.	100 lb.	100 lb.	100 lb.	100 lb.	100 lb.
Shell by lead oil	3 1/2 gal.	3 1/2 gal.	3 1/2 gal.	3 1/2 gal.	3 1/2 gal.	3 1/2 gal.	3 1/2 gal.	3 1/2 gal.
Shell by lead oil	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.
Pure turpentine	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.
Thin varnish	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.	1/2 gal.
Colors of paint produced	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
24 ft. covered per gal. 1 coat	600	700	700	700	700	700	700	700

HEAVY PAINTS. Above formulas are based on the use of white lead. If heavy paint is used, add 1 quart of turpentine to all formulas except No. 12, 13 and 14. If leaded linseed oil is used, use one quart of turpentine for each gallon of oil.

DUTCH BOY PAINTING SPECIFICATIONS

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3. PAINTING INTERIOR PLASTER

(a) (How far and describe surfaces to be painted.)

(b) Before any paint is applied, plaster surfaces, unless new or old, shall be made clean and smooth.

(c) All cracks and holes shall be filled with plaster of paris or approved patching plaster. Large cracks before filling shall be spread up to dovetail shape close to the back and sealed with wire. The filling plaster shall be leveled off even with the adjoining plaster surface, and when dry shall be sandpapered smooth.

(d) Walls that have been exterminated shall be washed until all residue is removed before applying any paint.

(e) Where new plaster is to be painted or not properly used, the surface shall be treated with a solution made by dissolving two pounds of zinc sulphate in one gallon of water. After the zinc sulphate solution has been applied, sufficient time shall be allowed for the plaster

to dry before priming.

(f) All plaster (also wall board or fabric coverings) not previously primed shall be primed with Dutch Boy Wall Primer, using Formula No. 20 and shall receive two additional coats, using Formula No. 21 for the second coat and Formula No. 22, the finish; 22 (or 23) applied flat finish for stipping; or 24, eggshell finish; for the finishing coat. (Surfaces previously primed do not require the priming coat.)

(g) If a glass finish is wanted on interior plaster, specify a prepared enamel for the third or finish coat.

(h) Where colors other than white are to be used, the necessary tinting materials shall be added to the last two coats of paint. (Specifications of colors and where they are to be used as well as any instructions as to special decorative finishes should be stated here.)

FORMULAS

Material	Formula No. 20*	Formula No. 21	Formula No. 22	Formula No. 23	Formula No. 24
Dutch Boy white lead	100 lbs.	100 lbs.	100 lbs.	100 lbs.	20 lbs.
Dutch Boy Lead Mixing Oil	** 4 to 5 gals.	** 2 to 4 gals.	2 gals.	1 1/2 gals.	1 1/2 gals.
Dutch Boy Staining Oil	.....	.....	.....	1 1/2 gals.	.....
Dutch Boy Wall Primer	.....	.....	.....	.....	3 gals.
Yields of paint produced	7 1/2 to 8 1/2	6 1/2 to 7 1/2	5 1/2	6 1/2	6 1/2
Sq. ft. covered per gal., 1 coat	200	200	200	200	200

*Dutch Boy wall primer should always be specified instead of this formula when walls are extremely porous or in no otherwise poor condition.

**The maximum amount of Lead Mixing Oil should be used when the maximum amount of tiding is wanted.

4. PAINTING FLOORS

Wood Floors

(a) (How far and describe surfaces to be painted.)

(b) All wood floors shall be cleaned and sandpapered smooth before painting. If the old paint on a previously painted floor is in bad condition, it should be removed by planing, scraping or by the use of a liquid paint remover.

(c) All work shall be allowed to dry for at least four days before the next coat is applied.

(d) All floors not previously painted, or from which the paint has been removed, shall be primed with Formula No. 25, and shall receive two additional coats, using Formula No. 26 and 27 respectively.

(e) All floors previously painted shall be worked up on worn places using Formula No. 26, after which they shall receive two coats, using Formula No. 26 and 27 respectively.

(f) (Specifications of colors should be stated here. The necessary tinting materials should be added to the last two coats.)

(g) Undercoats of all new porch floors and the sanded and ground edges of the boards shall receive one coat, using Formula No. 28.

Concrete Floors

(a) New concrete floors shall be aged at least six months before being painted. If necessary to paint before that time, they may be aged artificially by working with a solution of two pounds of zinc sulphate to a gallon of water.

(i) Previously painted concrete floors shall be sanded to remove all loose paint.

(j) All work shall be allowed to dry at least four days before the next coat is applied.

(k) Unpainted concrete floors shall be primed with Formula No. 29 and receive two additional coats, using Formula No. 30 for the second coat and a high grade floor enamel for the finishing coat. (Previously painted floors do not require the priming coat.)

(l) The undercoat of paint shall be brought to an approximate match with the desired finish coat color by the addition of the necessary tinting materials. (Specifications of colors should be stated here.)

FORMULAS

Material	Formula No. 25	Formula No. 26	Formula No. 27	Formula No. 29	Formula No. 30	Formula No. 30
Dutch Boy white lead	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.	100 lbs.
Dutch Boy Staining Oil	** 2 gals.	1/2 gal.	1/2 gal.	2 1/2 gals.	2 1/2 gals.	1/2 gal.
Dutch Boy Lead Mixing Oil	.....	2 1/2 gals.	1/2 gal.	.....	2 1/2 gals.	.....
Two coats	2 gals.	2 1/2 gals.	1/2 gal.	.....	.....	2 1/2 gals.
One coat	1 gal.	1 1/2 gals.	1/4 gal.	1 pint	.....	1/2 pint
Yields of paint produced	5 1/2	6	3 1/2	6 1/2	5 1/2	6
Sq. ft. covered per gal., 1 coat	200	200	200	200	200	200

**If the floor is of hardwood, reduce the amount of oil to 1 1/2 gallons.

**If the floor is not sanded to the smooth or floor enamel coated or aged smooth.

HEAVY DUTCH BOY—These formulas are based on the use of white zinc white lead. If heavy paint is used add 1 more of composition to all formulas except No. 25.

HEAVY DUTCH BOY—If tested found all a coat, one coat only for 1 formula.

DUTCH BOY PAINTING SPECIFICATIONS

NLI 002233

E. PAINTING INTERIOR WOOD

(a) (Have list and describe surfaces to be painted.)

(b) New woodwork shall be cut smooth with compasses where required and dressed down before priming.

(c) Old painted or varnished woodwork that shows bad cracking, checking or scaling shall be stripped by means of a good paint and varnish remover, and then cleaned with kerosene or turpentine. Woodwork that is green or coated with wax should be scrubbed clean with turpentine or kerosene before painting.

(d) All nail holes, cracks, dents or other defects shall be filled with white-lead putty after the priming coat has dried.

(e) All unpainted wood, or surfaces from which the paint has been removed completely, shall be primed with Formula No. 31 and shall receive two additional coats, using Formula No. 32 for the second coat and Formula No. 33 for the third; or 33, semi-gloss finish, for the finish coat. (Previously painted surfaces on which the old paint is in good condition do not require the priming coat.)

(f) If a glass finish is wanted on interior wood, specify a prepared enamel for the third or finishing coat.

(g) Where colors other than white are to be used, the necessary tinting materials shall be added to the last two coats of paint. (Specifications of colors and where they are to be used should be stated here.)

FORMULAS

Materials	Formula No. 31	Formula No. 32	Formula No. 33
Dutch Boy white-lead	100 lbs.	100 lbs.	50 lbs.
Dutch Boy linseed oil	3 gals.	3 gals.	1 1/2 gals.
Dutch Boy Lead Mixing Oil	2 gals.	2 to 4 gals.	1 1/2 gals.
Pure turpentine	1 pint	1 pint	1 pint
Dutch Boy wall primer	1 pint	1 pint	1 pint
Dutch Boy hand drier	1 pint	1 pint	1 pint
Costs of paint produced	8%	6 1/2 to 7 1/2	6%
Sq. ft. covered per gal. 1 coat	700	800	800

*If linseed oil is used, omit drier called for in formula.

HEAVY PASTE: Above formulas are based on the use of soft paste white-lead. If heavy paste is used, add one quart of turpentine to Formula No. 31 and.

F. PAINTING METAL

(a) (Have list and describe surfaces to be painted.)

(b) All metal surfaces before priming shall be cleaned thoroughly with steel scrapers, wire brushes or by means of sandblasting where necessary.

(c) Galvanized iron, or all metal surfaces where solder fluxes have been used, shall be carefully washed with mineral spirits (kerosene) before any paint is applied.

(d) All metal work to be finished in black or a dark color shall be primed with Formula No. 34 (or Dutch Boy Liquid Red-Lead No. 1). The second coat shall be Formula No. 35 (or Dutch Boy Liquid Red-Lead No. 6). The third coat shall be Formula No. 36 (or Dutch Boy Red-Lead No. 5) or a pair of the color desired.

(e) All metal work to be finished in white or light colors shall be primed with Formula No. 34 (or Dutch Boy Liquid Red-Lead No. 1) and shall receive two additional coats using Formula No. 37 and Formula No. 38 respectively.

(f) Where metal work is to be finished in a light color, the necessary tinting materials shall be added to Formula No. 37 and 38. (Specifications of colors and where they are to be used should be stated here.)

NOTE: The red-lead priming coats offered in these specifications are mixed on the basis of 35 pounds of dry red-lead to the gallon of linseed oil. Experience has shown that a primer of this composition gives maximum durability and service, particularly where exposure conditions are severe as in warm, moist climates or near the ocean. If, however, exposure conditions are not so severe it is frequently possible to use a lighter weight primer containing a lower percentage of pigment and secure perfectly satisfactory results.

For this purpose, National Lead Company offers Pure Red-Lead Paint No. 25 and Pure Red-Lead No. 16. Both are 100% pure red-lead paints, the former mixed on the basis of 25 pounds of dry red-lead to one gallon of vehicle, the latter on the basis of 16 pounds of dry red-lead to one gallon of vehicle.

FORMULAS

Materials	Formula No. 34	Formula No. 35	Formula No. 36	Formula No. 37	Formula No. 38
Dutch Boy red-lead	100 lbs.	100 lbs.	25 lbs.	100 lbs.	100 lbs.
Dutch Boy white-lead	1 1/2 gals.	1 1/2 gals.	2 1/2 gals.	1 1/2 gals.	2 1/2 gals.
Dutch Boy linseed oil	1 1/2 gals.	1 1/2 gals.	1 1/2 gals.	1 1/2 gals.	1 1/2 gals.
Dutch Boy linseed oil	1 1/2 gals.	1 1/2 gals.	1 1/2 gals.	1 1/2 gals.	1 1/2 gals.
Pure turpentine	1 1/2 pints	1 1/2 pints	1 1/2 pints	1 1/2 pints	1 1/2 pints
Dutch Boy hand drier	1 1/2 pints	1 1/2 pints	1 1/2 pints	1 1/2 pints	1 1/2 pints
Costs of paint produced	4 1/2	4 1/2	6	6 1/2	6 1/2
Sq. ft. covered per gallon	25.1	25.9	11.6	200	200
Sq. ft. covered per gal. 1 coat	800	800	700	700	700

HEAVY PASTE: Formulas No. 37 and 38 are based on the use of soft paste white-lead. If heavy paste is used, add 1 quart of turpentine to each formula. UNLEAD LINSEED OIL: If linseed oil is used, omit drier called for in formulas except for Formula No. 36 where it should be reduced to 2 pints.

G. PAINTING METAL WHEN QUICK DRYING IS REQUIRED

Wherever conditions demand quick drying Dutch Boy Quick-Drying Red-Lead should be specified.

Dutch Boy Quick-Drying Red-Lead is a straight red-lead paint weighing 16.5 pounds to the gallon. Its quick drying properties are obtained through the use of a synthetic resin vehicle. It dries for coating in from two to six hours. It is especially adapted for use in painting ships, water tanks and other equipment which cannot be conveniently kept out of service for an extended period.

Dutch Boy Quick-Drying Red-Lead dries to a hard, firm, yet elastic film, uniform in thickness. It adheres tightly to metal, binds with the paint coats applied over it, and will stand severe rubbing. On exposure to the weathering action of water, it may be used for all metal. For inspection purposes, inspection coats can be added to known by the addition of from 1/2 to 1 1/2 pint of kerosene per gallon. If the preparation is increased beyond 1 1/2 pint to a gallon, the kerosene should be ground to Japan.

DUTCH BOY PAINTING SPECIFICATIONS

NLI 002234

WHITE-LEAD — THE MODERN PIGMENT

A FEW years ago, studies were made of the paint specifications prepared by architects, engineers, maintenance men and other large buyers and users of paint. The results indicated that "lead and oil" continued—as it had for many years—to be the preferred material in the very large majority of cases.

Undoubtedly, part of the answer for this continuing preference can be summed up in one word—dependability. Pure white-lead, thinned with linseed oil, has been used successfully for so many years that its good performance—when properly mixed and applied to a fit surface—is a practical certainty.

Dependability, however, is not the whole answer. Certainly some measure of this preference can be attributed to the manner in which white-lead has remained in the forefront of modern paint pigments—to the improvements in its paint-mixing and paint-masking qualities which accurately reflect proved technological developments and which continue to keep "lead and oil" one of the most easily spread, best hiding and thus most economical paints from the application standpoint.

Approximately ten years ago, an improvement—outstanding because it was so noticeable to the user—was the introduction of Dutch Boy paint with white-lead. The new paint made mixing a matter of minutes. Painters liked it because it saved them time and money on a job. There is change of maintenance painting men found it stepped up the productive efficiency of the paint crew. Best of all, the "change-over" to a better paint form better suited to modern requirements involved no alteration in the quality of the product.

In more recent times, another improvement of considerable importance has been an increase in the whiteness of Dutch Boy. To the unpracticed observer, of course, white is white and unless it were possible for him to compare the white-lead of ten years ago side by side with the white-lead of today, even a decided increase in intensity might escape him. To the technical paint man, however, the slightest change in color is quickly apparent and—if the change is in the right direction—a matter for rejoicing. He knows that a whiter white-lead will produce finer-looking white paint jobs and brighter, cleaner-looking jobs where the paint is tinted.

In the laboratory, the whiteness of a product such as white-lead is measured in an apparatus called a photometer. A small pile of the dry pigment is placed in position beside

a block of pure magnesium oxide. Pure magnesium oxide is the whitest substance known and has the highest light reflective value. It will turn back in the neighborhood of 97% of white light. The whiteness of the lead is calculated by a comparison of its light reflective property with that of the magnesium.

Ten years ago, commercial white-lead examined in a photometer usually reflected about 81% of white light. Today's white-lead will reflect approximately 90%.

Still another improvement, also of recent development, has been an increase in the hiding power of white-lead. The benefits of better hiding make themselves felt through more economical paint work and thus are of special interest and importance to the user. Improved hiding power means that paint goes further. Fewer gallons are required to cover a given area of surface. Better hiding also means more solid-appearing paint jobs.

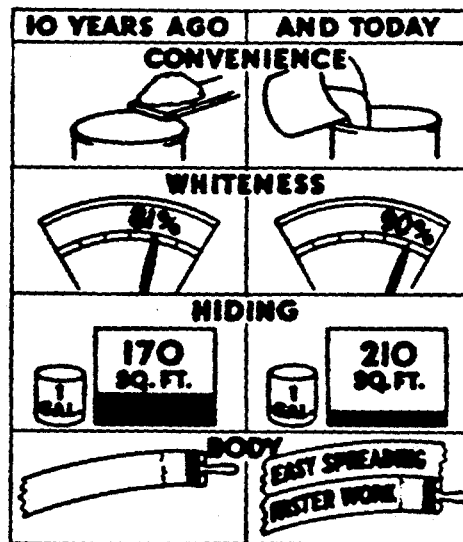
A common laboratory method of determining the hiding power of white-lead is to this it to brushing consistency with linseed oil and spread the resulting paint on a smooth black surface. The area that can be completely hidden is an index to the hiding power.

Ten years ago, a gallon of pure white-lead paint, formulated on an exterior gloss rosin basis (approximately equal volumes of pure white-lead and linseed oil), would have obscured about 170 sq. ft. of black surface. Today a gallon of Dutch Boy paint formulated on the same basis will hide completely about 210 sq. ft. of the same type of surface—a slightly more than 23% increase.

Greater whiteness and better hiding are what might be called "visual" improvements in white-lead. Another recent improvement which is in a somewhat different category is the increase in the so-called "bodying" or paint-thickening properties of Dutch Boy white-lead.

This better body enables the user to add the amount of linseed oil needed to do the right kind of job and still get a full-bodied paint that flows nicely and brushes out smoothly without running or sagging. The finished job has that solid look so characteristic of a properly-formulated and properly-applied white-lead paint. Also, because of its generally better brushing qualities, the painter can apply the paint faster.

In these ways Dutch Boy white-lead has become the modern white-lead, improved in convenience and improved in quality, while still retaining those characteristics that have long made it the choice for durability and fine appearance.



DUTCH BOY PAINTING SPECIFICATIONS

NLI 002235

MIXING WHITE-LEAD PAINT BY VOLUME

REPAINT WORK				
OUTSIDE WOOD EXCLUSIVELY WOOD SURFACES  PRIMER COAT FINISH COAT 1 CAN PRIMER COAT 2 CANS FINISH COAT 100 PERCENT COVERING Directions: Add 1/2 pint to each gallon of paint. If you intend all to be used, double amount of mixture as given. The less the better as it keeps the paint from drying off and all of it is in the can. The less the better.		BRICK, STUCCO, CONCRETE AND STONE  PRIMER COAT FINISH COAT 1 CAN PRIMER COAT 2 CANS FINISH COAT 100 PERCENT COVERING The above gives an amount of paint of best thing to do in the can. The less the better as per size required.		INTERIOR PLASTER, WALLBOARD, WOODWORK  PRIMER COAT 1 CAN PRIMER COAT 2 CANS FINISH COAT 100 PERCENT COVERING The above gives an amount of paint of best thing to do in the can. The less the better as per size required.
NEW WORK				
USE PRIMER COATING COAT BELOW FOLLOWED BY TWO COATS MIXED AS PER DIRECTIONS ABOVE				
OUTSIDE WOOD EXCLUSIVELY WOOD SURFACES 2 Parts PRIMER COAT 4 Parts FINISH COAT 2 Parts WATER	INT. WOOD 2 Parts PRIMER COAT 4 Parts FINISH COAT 2 Parts WATER	BRICK 2 Parts PRIMER COAT 4 Parts FINISH COAT 2 Parts WATER	STUCCO, CONCRETE AND STONE 4 Parts PRIMER COAT 8 Parts FINISH COAT 4 Parts WATER	INTERIOR PLASTER AND WALLBOARD 4 Parts PRIMER COAT 8 Parts FINISH COAT 4 Parts WATER

HOW SHOULD PAINT WEAR?

Since all paint must sooner or later lose its ability to protect the surface and improve appearance, it follows that most structures are periodically repainted. The intervals between paintings depend on local conditions, the owner's pride and pocketbook and, of course, the lasting quality of the paint itself.

If we assume that a frame house receives two coats of paint at an average interval of five years, there will have been (including the original three-coat job) twenty-one coats of paint applied before the dwelling reaches its fiftieth birthday. And if every one of these paint coats had kept its original thickness, a mighty thick coating would have been built up—a coating so heavy that the original primer would have a tough time hanging on to the wood. But, with white-lead paint as such heavy, thick, insistent film is progressively piled up. At the close of each average five-year period, the film will have worn down sufficiently so that each new re-paint job will not pile up a film that eventually might fall off its own weight.

The slow, even wearing-down that is characteristic of pure white-lead paint has other things to recommend it besides that of keeping the film at a safe thickness over a long span of repainting. One advantage is a so-called self-cleaning property. As the surface of the film slowly sheds the dust and dirt is loosened too, so that wind and rain can effect its removal. Further, the chalking surface requires no expensive preparation before repainting—a quick dusting off is all that is needed. Moreover, this type of surface provides



CLOSE-UP OF A PORCH COLUMN ON WHICH SEVEN-TWO COATS OF SUCH SOFT WHITE-LEAD PAINT HAVE BEEN APPLIED OVER A PERIOD OF YEARS.

The smooth, graded coating acts, characteristic of white-lead paint, has prevented the building up of an insurmountable film and hence your trouble.

excellent underlayer for the repaint coats—the pigment and vehicle in the fresh paint can get down into the old film.

Still another virtue of a paint that wears down slowly as time goes on is that it prevents the building up of a thick coating that blunts and blurs the fine outlines and details of parts of a building. It is not at all uncommon to find stately old residences that have lost much of their original architectural charm simply because close-cut details are smothered with piled-up paint film.

BETCH BOY PAINTING SPECIFICATIONS

NLI 002236



WHITE-LEAD FOR INTERIORS

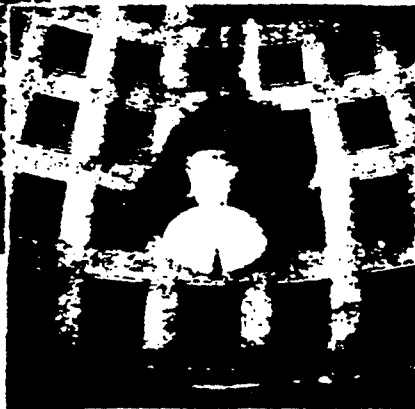
WHITE-LEAD PAINT HAS LONG BEEN USED TO PROTECT AND BEAUTIFY BUILDINGS LIKE THIS.

The paint for interior walls and woodwork should also be selected and specified with an eye to the future. In other words, today's paint should always make a safe foundation for succeeding coats no matter how many nor over how long a period they may be applied.

There are many paint users who have discovered that the paint they selected in good faith today didn't show its true colors for several subsequent repaintings. With white lead there is no need to risk subsequent costly troubles. There are plenty of buildings whose interiors have been white-lead painted for twenty, thirty, forty and more years. White-lead's performance is a matter of recorded history and not one of hopeful prophecy.



A CEILING THAT HAS BEEN PAINTED AND REPAINTED WITH WHITE-LEAD SINCE 1896.
The fine appearance of masonry painted consistently with white-lead for many years is proof that white-lead guards against future paint troubles.



Of course, this is just one of the advantages of paint made with Dutch Boy white-lead and Lead Mixing Oil. This paint brings to interiors that solid beauty of finish characteristic of white-lead jobs. With it, the painter can produce any tint or shade of color specified. He can provide also the degree of flatness best for ideal lighting.

It's a durable paint, too. Where conditions demand a high standard of cleanliness through frequent washing, this paint can "take it." It stands up under even careless scrubbing and harsh soap powders.

RED-LEAD FOR METAL SURFACES

The specifying of paint as a building material must necessarily include the protection of metal surfaces from rust and deterioration. There are few structures today that do not have metal work that needs such protection.

Dutch Boy red-lead has become the standard of efficiency in measuring the life and effectiveness of metal protective paint. Not only does it stick so tight that it becomes almost a part of the surface it covers but, like white-lead, is a long-lasting, economical paint... a "true member of the Dutch Boy line."

It is always to the best interests of the architect or engineer, the owner and the structure itself to specify Dutch Boy red-lead paint of the proper type and formulation to fit the job.



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DUTCH BOY PAINTING SPECIFICATIONS

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IN THE MATTER OF WHITEHEAD

Black Bay wharfed a mid in the lower town, power and soft power. Black are pure wharfed. Black will be the water price. Black power wharfed has been used for many years. This power, a more or less development, is a wharfed which can be wharfed in good many yards and really show how power.

...on interior, as well as exterior... the Gun is
equipped as well as plain Gunter... are said to 1000 ft. steel legs
and 10, 25 and 100 ft. steel rods.



DUTCH BNL LIMITED (NL)

Shut & the lowered oil & steam, cushion and well control valve is a unit to automatically lowered oil bar devices to divert the absorption, the valve procedure in preparing work cushion - to specify a brand of Lancia parts, and quality. Two types of strength gear lowered oil and loaded are mentioned under the Shurt's treatment. Each one is said to be the former, to answer that gear Shurt's oil mentioned the job. Both types are said to work and last, from.

**DITCH DIV
LIQUID DRYER**

[illegible]

**BUTCH BOY
WALL FRAMES**

Search Boy Wall Plaster with all porous surfaces effectively and everywhere. This includes plaster, wall board, plaster board, and interior concrete or masonry walls. At the same time it hides over the darkest surfaces with a solid coat that makes an ideal foundation for a white-hand "fin" or for any type of white-hand finish. Will not crack or peel with increasing years because it penetrates sufficiently to give proper anchorage. Requires no special thinners or special colors. Sold in 1-gal. and 1-quart cans and in 5-lb. bin.



THE DUTCH BOY LINE

A quarter bar of pure platinum is mounted under the front film instrument. It includes nearly all the material needed for painting one tape of microfilm, silver or color.

To the partners the Board has also offered a definite check on the quality of more bonded oil paint. Indirect materials were there and in open inquiry as well, in oil or liquid drive containers, except a paint's guarantee or descriptive questions, to a degree out of all proportion to their value.

The full Board has the authority to suspend the operations of operations that can be made "Bank" throughout. Furthermore, the power on the job of the business owner and third, contains further provisions.



**DUTCH BOY
CULDES IN ONE**



Black Boy Cakes have both low fat and high strength. Black does quite an important in creating shape, also size that bring on the beauty of a model, give job without creating an excess. In addition, Black Boy Cakes are soft. They mix into paste quickly and easily without lumps or clumping. There is a wide range of colors in the Black Boy line. So many color possibilities to produce the color required. Black Boy Cakes come in Gelatinous 1-lb., 1-qt. and 1/2-qt. sizes and in 2oz. tins.

**BUTCH BUT
LEAD MIXING ON**

Stank Ray Lead Mining Oil is a composition which is Stank Ray licensed oil. It cleans perfectly with whitelash for the cutting and dissolving of plaster, wall board, concrete and stone—whether on the interior or exterior. It drives to a scrub the finish. The carbon is from heavy brominated or chlorine. It remains in good appearance, double frequent washing and everything over and over. Stank Ray Lead Mining Oil is available in sealed 1-gal. and 5-gal. cans.



WITCH BOY ROBLES

Just as pure red-lead cures other paint materials as a protective for metal, so does DuPont's Bar red-lead—that is, highly oxidized red-lead containing more than 75% PbO₂—cure other red-lead with a lower zinc red-lead content. Paint made from highly oxidized red-lead has better keeping qualities. It is easier to apply.

and has a greater spreading capacity. It produces a uniform film of greater density and there is more double and more resistant to destructive atmospheric influences.

Black Box Poster and-bird is red-head ground in pure flowered oil. Sold in 200-lb. bags, 25 and 12½-lb. steel pails.



**BUTCH BOY
LOADED RED-LEAD**

Sold in four types as follows: No. 1 (Orange Red), No. 6 (Light Brown), No. 7 (Dark Brown), No. 5 (Black). All are ready-to-use end-head paints unsifted for all sorts of surfaces exposed to the weather. Sold in 20-gal. drums, 5-gal. kls and 1-gal. and 1-pal. cans.



**BUTCH BOY
QUICK-DATING RED-LEAD**

This is a special type of red-bud paint designed for use when the available drying time is short. It dries for recoating in from 4 to 6 hours. It contains nothing but pure highly oxidized red-bud ground in a synthetic resin vehicle. Sold in 20-gal. drums, 5-gal. kets and 1-gal.



DUTCH BOY PAINTING SPECIFICATIONS

NLI 002238