

GLASSBORO, NEW JERSEY

Patented in U.S.A. 1772

C&R FORMULA

Product: SPRED LUSTRE ALKYL SEMI-GLOSS ENAMEL

☐ ROYALTY

Formula No. Y-4600 K

Customer: ONE COAT WHITE

Tint, Color

Lab. No.

ADD BY WEIGHT 100 GALLON BATCH

BY

MANUFACTURING

Date 21 NOV 74

CODE NUMBER

GALLONS

POUNDS

WEIGHT

INSTRUCTIONS

COWLES

H V2390

25.00

195.00

19.39

ADD TO COWLES TANK

V2393

3.00

24.15

2.40

*E121

1.06

15.00

1.49

ADD SLOWLY AND DISPERSE 5 MINUTES

H 5213

1.10

7.45

0.74

ADD AND MIX WELL

*H112

4.43

100.00

9.94

ADD PIGMENT AND DISPERSE TO 6-7

*H951

7.50

250.00

24.86

GRIND DO NOT EXCEED 130 F

H V2385

25.00

190.00

18.89

ADD & MIX 15 MINUTES. RECHECK GRIND

5385

5.00

31.60

3.14

COWLES TANK WASH

H E2233

20.00

140.00

13.92

ADD TO DISPERSION IN LETDOWN TANK

5385

6.50

41.10

4.09

UNDER AGITATION

*E390

0.50

4.10

0.41

*E382

0.30

2.30

0.23

*E303

0.20

1.70

0.17

*E262

0.20

1.50

0.15

CONTAINS LESS THAN .06% LEAD

*#2736203

0.25

1.80

0.18

DO NOT ADD MATERIALS CONTAINING LEAD

YIELD

100.05

1005.7

100.00

Changes:

☐ I.R.M.

☐ Mfg.

☐ Phys.

Formulator

SUTHERLAND/JES

Approved WMT/STB

Standard Formula.
Not to be taken
from file.

FORM 1000 (MAY 1962) PRINTED IN U.S.A.

G&R FORMULA

Formula or Lab No. Y-4600-K

TITROS

COSES

Trade Name

DESCRIPTORS (20 spaces - limit)

Customer

REVISED TO CHANGE SPRED
LUSTRE TO A THIXOTROPIC
QUALITY

End Use

SPRES

Royalty

☐ Yes ☒ No

Silicone

☒ Yes ☐ No

Resins

V2385

V2390

V2393

F2233

Resistance

M2 or M10ms # 1-2-16-18-17-11-12-14-30

12-5-74 (14)

CUSTOMER

APPLICATION

CONDITIONS

BRUSH/ROLL/SPRAY

LD/BAKE

4-6 HOURS (A.D.)

RECOAT TIME

OVERNITE

STOUPING FULL BODY VISCOSITY

METHOD

STD. GLOSS METHOD

COLOR MATCH

COLOR INSTR.

SAG STD

16-7

90-95 KU

155

30-40 / 165

DO NOT SHADE

APPLICATION

BRUSH

FILM THICKNESS

4-6 MIL

LD/BAKE

AIR DRY

SCORE

BRUSHOUT FOR SAG

DL

CONL

STD. WT. 6 RES VISCOSITY STD.

METHOD

PIC. P. 10. 10. 10. TEST

STD. P. 10. 10. 10. TEST

LABEL WARNING

FLASH PT.

LEAD

10.05

204

11-62

100

0.00

REDUCER

SUBSTRATE

STD. IMPACT METHOD

SPECIAL INSTRUCTIONS

CHECK VISCOSITY AFTER 16 HRS.

CATALYST

POT LIFE

STD. A. 10. 10. 10. TEST

COLOR

EXPT. TIME

STD. WT.

TYPE FILTER

CLEARLINESS

V. C28-2

46-0

54. FT/DY. MIL

0 IRMS/54. Ft. Dry Mil

0.000

FTS/Gal.

0.00 READING

GLD059727

C&R FORMULA

Product: SPRED LUSTRE SEMI-GLOSS ENAMEL

ROYALTY

Formula NY-4600 J

Customer: ONE COAT WHITE

Tints Color

Lab. No.

ADD BY WEIGHT 100 GALLON BATCH % BY

MANUFACTURING

Date 24-SEP-74

CODE NUMBER GALLONS POUNDS WEIGHT

INSTRUCTIONS

COWLES

H V2390 25.00 195.00 18.16 ADD TO COWLES TANK.

E155 1.23 15.00 1.40 ADD AND DISPERSE 5 MINUTES.

N112 7.97 180.00 16.77 ADD PIGMENT AND DISPERSE TO 657

N951 8.10 270.00 25.15 GRIND. DO NOT EXCEED 130 F.

H V2390 10.00 78.00 7.26 ADD TO DISPERSION BEFORE TRANSFER.

S385 5.00 31.60 2.94 COWLES TANK WASH.

H V2390 7.00 54.60 5.09 ADD TO LETDOWN TANK UNDER AGITATION.

H F2233 30.00 210.00 19.56

S385 4.50 28.45 2.65

E390 0.41 3.30 0.31

E382 0.35 2.70 0.25

E303 0.20 1.70 0.16

F262 0.20 1.50 0.14

E273C203 0.25 1.80 0.17

Standard Formula

Not to be taken

from File

CONTAINS LESS THAN .06% LEAD

DO NOT ADD MATERIALS CONTAINING LEAD

Changes: ☐ R.M. ☐ Mfg. ☐ Phys.

YIELD 100.20 1073.6 100.00

Formulator: SUTHERLAND/JES. Approver: WMT/STB

FORM 1389 (BACK) PRINTED IN U.S.A.

CAR FORMULA

Formula or Lab No.

TIROS

CODES

DESCRIPTORS (26 spaces - limit)

Customer

REVISED TO ELIMINATE
N-161 (DISCONTINUED BY
THE SUPPLIER).

End Use

SPEC.

Royalty

☐ Yes☐ No

Silicone

☒ Yes☐ No

Res. V2390

F2233

Resistance

Mtd. or Plots

1-2-5-7-11-13-14-15-16-17-36-16-17-74 (2)

CUSTOMER

APPLICATION

ADDRESS

REGOAT TIME

CONDITIONS

BRUSH/ROLL/SPRAY

4-6 HOURS (A.D.)

OVERNITE

Q

STD. GRIND

FULL BODY VISCOSITY

METHOD

STD. GLOSS METHOD

COLOR MATCH

COLOR HINT

SAG STD.

A

5-7

80-85 KU

155

40-50 7165

DO NOT SHADE

8-10

L

APPLICATION

FILM THICKNESS

A.D. OR MAKE IN ISO TESTS

LINER MILL

Y

BRUSH

2-3 MIL

AIR DRY

USE SAG TEST 183

01

COWL

C

REF. VISCOSITY

METHOD

REF. MATCH TINT TEST

REF. PEGIL HARD

LABEL WARNING

FLASH RT. LEAD

D

10-71

ECZ-70-1

11-62

103

0:00

P

RECUER

MULTIPLATE

STD. IMPACT METHOD SPECIAL INSTRUCTIONS

R

S-385

KEM PAPER

E

F-150

REF. F-150

COLOR

CURE TIME

STD. NV

TYPE FILTER

CLEANLINESS

F

35-1

46-5

E-EL. Dry MITE

0 RMS/Sq. Ft. Dry MITE

0.000 RMS/Gal

67.96 F-150

0.00 READING

P.V.C.

NV/VOL

46-5

E-EL. Dry MITE

0 RMS/Sq. Ft. Dry MITE

0.000 RMS/Gal

67.96 F-150

0.00 READING

GLD059729

Product: SPRED LUSTRE SEMI-GLOSS ENAMEL

ROYALTY

Formula No. Y-4600 H

Customer: ONE COAT WHITE

Tires Color:

Lab No.

ADD BY WEIGHT 100 GALLON BATCH

BY

MANUFACTURING

81721774

CODE NUMBER

GALLONS

POUNDS

WEIGHT

INSTRUCTIONS

COWLES

V2390

25.00

195.00

18.36

ADD TO COWLES TANK.

E155

1.23

15.00

1.41

ADD AND DISPERSE 5 MINUTES.

C911

0.23

2.00

0.19

ADD AND MIX WELL.

N161

6.80

150.00

14.13

ADD PIGMENT AND DISPERSE TO 6-7

W951

8.37

280.00

26.37

GRIND. DO NOT EXCEED 130 F.

V2390

10.00

78.00

7.35

ADD TO DISPERSION BEFORE TRANSFER.

S385

5.00

31.65

2.98

COWLES TANK WASH.

V2390

9.00

70.20

6.61

ADD TO LETDOWN TANK UNDER AGITATION

F2233

30.00

210.00

19.78

Standard Formula.

S385

3.00

19.00

1.79

Not to be taken

E390

0.40

3.30

0.31

from File.

E382

0.35

2.70

0.25

E303

0.20

1.70

0.16

E262

0.20

1.50

0.14

CONTAINS LESS THAN .06% LEAD DO

273C203

0.25

1.80

0.17

NOT ADD MATERIALS CONTAINING LEAD

Changes:

☐ R.M.

☐ MIA

☐ Phys.

Formulator

SUTHERLAND/JES

Approved

WMT/STB

YIELD

100.02

1061.8

100.00

Form 100-1 (Rev. 1-1-64) Printed in U.S.A.

C&R FORMULA

Formula or Lab. No.

Trade Name
Code

Y-4600-H

Trade Name

DESCRIPTORS (30 characters limit)

Customer

REVISED TO LOWER GLOSS
AND TO IMPROVE MAR
RESISTANCE

2nd Use

Specs

Resins

V2390

F2233

210 Baltimore Copper 3-15-74
C&R Group
Cuzco, Costa Rica, Central
Guatemala, Mexico, Panama
4-22-74 (14)
@ Japan (Shuto) 4-23-74 (14)

Resin

Alc. & Plastic 4-23-74 8-11-74 12-14-74 15-16-74 17-30

3-15-74

@ Japan (Shuto) 4-23-74 (14)

Sample #1

CUSTOMER
CONDITIONS

APPLICATION

BRUSH/ROLL/SPRAY

AD/DAKE

4-6 HOURS (A.D.)

SECOAT TIME

OVERNITE

STD. SPRING

FULL BODY VISCOSITY

METHOD

STD. GLASS METHOD

COLOR METER

COLOR INSTR.

SAG STD.

6-7

80-85 KU

155

40-50/165

DO NOT SHADE

8-10

APPLICATION

FILM THICKNESS

AD. OR BAKE

MISC. TESTS

INNER MILL

BRUSH

2-3 MIL

AIR DRY

USE SAG TEST 183

01 COYL

STD. SPRING

FULL BODY VISCOSITY

METHOD

STD. GLASS METHOD

COLOR METER

COLOR INSTR.

SAG STD.

10.62

EC2-70-1

11-62

100.00

RECOAT

SUBSTRATE

STD. IMPACT METHOD

SPECIAL INSTRUCTIONS

C-385

KEM PAPER

RECOAT

SUBSTRATE

STD. IMPACT METHOD

SPECIAL INSTRUCTIONS

P.V.C.

RV/Vol

Sq. Ft. Dry Mlt

0

RMS/Sq. Ft./Dry Mlt

0.000

RMS/Gal

67.9 F-150

1.83 READING

GLD059731

Product: SP-47D LUSTRE SEMI-GLOSS ENAMEL				☐ ROYALTY	Formula No. Y-4600-G	FILMED
Customer: ONE COAT WHITE				Tints Color:	Lab No. (BASE)	
ADD BY WEIGHT: 100 GALLON BATCH				% BY	MANUFACTURING	
CODE NUMBER				GALLONS POUNDS WEIGHT	INSTRUCTIONS	
V2390				25.00 195.00 18.61	ADD TO COWLES TANK.	
* E382				0.30 2.30 0.22		
* E155				1.23 15.00 1.43	PRE-DISPERSE 10 MINUTES.	
* N161				5.89 130.00 12.41	DISPERSE PIGMENT TO 6-7 GRIND.00	
* W951				8.37 280.00 26.72	NOT EXCEED 130 F. DURING DISPERSION.	
V2390				10.00 78.00 7.44	ADD TO DISPERSION BEFORE TRANSFER.	
S385				5.00 31.50 3.01	COWLES TANK WASH.	
V2390				10.00 78.00 7.44	ADD TO LETDOWN TANK UNDER AGITATION.	
F2233				30.00 210.00 20.04		
S345				3.50 22.05 2.10	Standard Formula	
* E390				0.40 3.30 0.31	Not to be taken	
* E303				0.15 1.30 0.12	from file	
* E262				0.20 1.50 0.14		
YIELD				100.04 1047.9 100.00	NOTE-N115 MAY BE USED FOR N161.	
				Changes: ☐ R.M. ☐ Mfg. ☐ Phys.		
				Formulator	SUTHERLAND/JES Approval/STB	

TIROS

CODES

Trade Name

DESCRIPTORS (20 spaces - limit)

Customer

REVISED TO ELIMINATE
LEAD COMPOUNDS.

End Use

Specs

Resin

Yes ☒ No ☐

Silicone

Yes ☒ No ☐

Resins

V2390

F2233

Resistance

Mfd. at Plants

CUSTOMER

APPLICATION

CONDITIONS BRUSH/ROLL/SPRAY

STD. PRIN. FULL BODY VISCOSITY

METHOD

STD. GLOSS METHOD

COLOR MATCH

COLOR INSTRUC

SAG STD.

U

5-7

80-85 KU

4-C-1

50-60/9-A-1

DO NOT SHADE

8-10

APPLICATION

FILM THICKNESS

A.D. OR BAKE

MISC. TESTS

LINER MIL.

BRUSH

2-3 MIL

AIR DRY

CHECK SAG WITH LENETA BAR

COYL

STD. WT. STD. REG. VISCOSITY STD.

METHOD

STD. PENCIL HARD

LABEL WARNING

FLASH FILL

LEAD

C

10.48

ECZ-70-1

11-62

100 0

REDUCER

SUBSTRATE

STD. IMPACT METHOD

SPECIAL INSTRUCTIONS

S-385

CHECK GLOSS AND SAG ON TINT

CATALIST

POT LIFE

PH. A. NO. COLOR

CURE TIME STD. NY

TYPE FILTER

CLEARLINESS

P.V

32.6 NY/VOL. 8

Sq. Ft./Dry Mil = 10

RMS/Sq. Ft./Dry Mil = 0.000

RMS/Gols 1.73

Product: SPRED LUSTRE SEMI-GLOSS ENAMEL

Royalty

Formula No. 7-4500-F

Customer: ONE COAT WHITE

Color: WHITE

Lot No. (BASE)

ADDITIVE WEIGHT	100 GALLON BATCH	Wt. %	MANUFACTURING INSTRUCTIONS
CODE NUMBER	GALLONS	POUNDS	
V2390	25.00	195.00	18.52 ADD TO COMLES TANK.
E326	0.36	5.00	0.47
E155	1.23	15.00	1.42 PRE-DISPERSE 10 MINUTES.
N115	5.75	130.00	12.35 (N161 MAY BE USED IN PLACE OF N115)
N951	8.37	280.00	26.50 DISPERSE PIGMENT TO 6-7 GRINDS DO NOT EXCEED 130 F. DURING DISPERSION.
V2390	10.00	78.00	7.41 ADD TO PIGMENT DISPERSION BEFORE
S385	4.00	25.20	2.39 TRANSFER TO LETDOWN TANK.
S385	4.00	25.20	2.39 COMLES TANK WASH.
V2390	10.00	78.00	7.41 ADD TO LETDOWN TANK.
F2233	30.00	210.00	19.95
E344	0.50	4.75	0.45
E380	0.40	3.10	0.29
E304	0.25	2.00	0.19
E262	0.20	1.50	0.14

Standard Formula
Not to be taken
from File.

323.511

419.9901

722.902

Y-4600 F

821.018

REVISED TO REVERT TO

PURE TITANIUM DIOXIDE

CALCIUM CARBONATE PIG-
MENTATION.C. Roca, Muel, Moya
F. Pansa 3.24.70

T.2.F.A. ALKYD(V2390)

SOYA ALKYD(T2233)

H. G. Longtin 3.29.70

Y. L. L. L. L. L.

#1.2.5.8.11.13.14.15.16.17.30

F.30 (C. L. L. L. L.) 5.18.70

PIGMENT

38.9

CALCIUM CARBONATE

31.7

TITANIUM DIOXIDE

68.3

TOTAL

100.0

0.0

VEHICLE

61.1

LINOLEIC-LINOLENICPALMITIC-STEARIC-

OLEIC ALKYD

42.6

MINERAL SPIRITS AND DRIERS

57.4

TOTAL

100.0

0.0

BRUSH/ROLL/SPRAY

4-6 HOURS(A.D.) OVERNITE

6-7

20-85 KU

4-C-1 30-605-4-1

6-10

BRUSH

2-3 MIL. CONTROL

03M

10-32

EGZ-70-1

1-62 NPULA 100. 4-1

S-385

CHECK SAG BY LENETA BAR

6.49

GLD059735

31.9

44.3

0

0.000

1.72

4238

Product **Bored Lustre Semi-Gloss Enamel - One Coat**

Customer

White

Formula Number **Y-4600-E**

Laboratory Number **(BASE)**

R.M. Cost **67** Date **12/5/65**

Mil Cowles Grind **6-7**

NPYLA Alcod **2**

Label Warning **11-62** METHOD

Wt. Gal. **10.94** **5-A-1**

Flash Pt. °F. **100** Theo.

N.V.Wt. **66.7%** Calc.

N.V.Vol. **44.8%** Calc.

Visc. F.R.80-85 KU **4-C-1**

Visc. Red

Reducer **S-385** Ratio

F.V.C. **36.1%** pH

Color **White** Match **EC2-**

70-1

Gloss **50-60** Method **9-A-1**

Strainer

Container

Application **Brush/Roll**

Ad/Ex. **4-6 hours**

Recoat Time **Overnite**

Remarks **Revised to lower**

cost using W-137.

Formulator **Sutherland/JES**

Approved by **WT/STB**

CODE NUMBER	100 GALLON BATCH		S. BY WEIGHT	MANUFACTURING INSTRUCTIONS
	GALLONS	POUNDS		
Y-2390	30.0	234.0	21.4	
* C-911	0.23	2.0	0.18	
* E-396	0.29	4.0	0.37	Premix 10 min.
* E-155	0.98	12.0	1.1	
* W-951	5.08	170.0	15.54	Disperse to 6-7
* W-137	11.07	300.0	27.43	grind. DO NOT EXCEED 130°F
Y-2390	12.0	93.6	8.55	Add before transfer.
S-385	4.0	25.2	2.3	
S-385	5.0	31.5	2.88	Cowles tank rinse
P-2233	30.0	210.0	19.2	Latdown in tank
* E-344	0.5	4.75	0.43	
* E-380	0.4	3.1	0.28	
* E-304	0.25	2.0	0.18	
* E-262	0.2	1.5	0.14	
Y-12	100.	1093.65	100	

Standard Formula
Not to be taken
from File

Date 12/5/69 Formula No. Y-4600-E

CLASS 323.317 419.9901 722.902
CODES 821.018Product Spread Lustre Semi-Gloss
Enamel - One Coat White

DESCRIPTORS (20 spaces - limit)

Label Warning #11-62

Trade Name _____ Classmer _____

ANALYSIS

Substrate and Treatment _____

Pigment 43.0 %

End Use _____

Vehicle 57.0 %

Specifications _____

100.0%

Regality Yes ☐ No ☒ Silicate Yes ☐ No ☒

Pigment

Resins T.O.P.A. Alkyd, Soya Alkyd

Titanium Dioxide 36.2%

Titanium Calcium 63.8%

Color White Gloss 50-60

100.0%

For Use On _____

Resistance _____

Y-Pt. List

Manufactured or Pkg 1-2-3-8-11-12-14-15-16-17-30 12-9-69

Vehicle Linoleic, Linolenic,

Manufacturing Instructions or Remarks _____

Oleic, Palmitic, Stearic

C. Rica, West Mexico, Panama 10-16-69

Alkyd Resin 41.6%

Sailind, Lebanon, Africa, Spain

Mineral Spirits

London & Co. 12-16-70

& Driers 58.4%

100.0%

Y-4600 9512

Product Spred Lustre Semi-Gloss Enamel #4600

Formula Number Y-4600-D

Customer

One Coat White

Laboratory Number PGL-698791R

R.M. Cost 1.77 Date 8/8/6

CODE NUMBER	100 GALLON BATCH		% BY WEIGHT	MANUFACTURING INSTRUCTIONS	Mill - Cowles - Gin
	GALLONS	POUNDS			
V-2390	25	195	18.52	Pre-Mix 10 min.	NPVLA Biload -1
*E-396	0.36	5	0.47	Do not exceed	Label Warning 11-62
*E-155	1.23	15	1.42	130° F.	M/Gal. 10.5#
*W-951	8.67	290	27.55	Disperse to 6-7	Flash Pt. 100
*H-161	5.44	120	11.40	grind.	N.V.W. 64.9%
				Do not exceed 130	N.V. Vol. 44.8%
V-2390	20	156	14.82	Add before pumping	Visc. P.B. 80-82 KU
S-385	4	25.2	2.39		W.C. Red.
S-385	4	25.2	2.39	Cowles tank wash	Reducer S-385
P-2233	30	210	19.95	Let down in tank.	P.V.C. 31.5% pH
*E-344	0.5	4.75	0.45		Color White Match ECZ.
*E-304	0.25	2	0.19		Gloss (60°) 50-60 Method 9-A
*E-380	0.4	3.1	0.29		Stirrer
*E-262	0.2	1.5	0.14		Container
					Application: Brush/Roll
					AD/BOX 4-6 Hours
					Recoat Time: Overnight
					Remarks: Tint strength
					standardized for
					Master Palette.
					Formulator: Sutherland/JES
Yield	100.0	1052.75	99.98		Approved by: WMT/STB

Standard Formula
Not to be taken
from file

FORM 100 (back) PRINTED IN U. S. A. 11-68

C & R FORMULA

Date 8/8/69

Formula No. Y-4600-11

C.R. 35 323.311 419.990 722.902

CODES 821.018

Product Spread Lustre Semi-Gloss

Enamel - #4600 One Coat White

DESCRIPTORS (20 species-limit)

Label Warning #11-62 NPVIA

Trade Name Customary

ANALYSIS

Substrate and Treatment

Pigment 39.0

End Use

Vehicle 61.0

Specifications

100.0

Reactivity Yes ☐ No ☒ Silicone Yes ☐ No ☒

Pigment

Resins T.O.P.A. Alkyd, Soya Alkyd

Titanium Dioxide 70

Calcium Carbonate 29

Color White Gloss 60° 50-60

Porta Riva Unit

For Use On

Mexico Panama 8-15-69

Resistance Y. P. 1st

Manufactured at Plants #1-2-5-8-11-12-14-15-16-17-30

P-8-6901

Manufacturing Instructions or Remarks

Vehicle Linoleic, Linolenic,

36 (Eugenol) 8-15-69

Oleic, palmitic, Stearic

Manufacturing Instructions or Remarks

Alkyd Resin 42.6

Manufacturing Instructions or Remarks

Mineral Spirits &

Manufacturing Instructions or Remarks

Driers 57.4

Manufacturing Instructions or Remarks

100.0

Manufacturing Instructions or Remarks

Y-4600 968

Manufacturing Instructions or Remarks

Manufacturing Instructions or Remarks

Manufacturing Instructions or Remarks

Manufacturing Instructions or Remarks

GLD059739

Product: **Spred - Lustre Semi-Gloss Enamel - Super**

Customer:

White

Formula Number **X-44**

Laboratory Number

R.M. Cost \$1.71 Date

Mill **Cowles** GrainMPYLA **2** LeadLabel Warning **11-62**Vol./Gal. **10.55**Flash Pt. °F. **100**H.V. Vol. **65.0%** Calc.H.V. Vol. **44.3%** Calc.Visc. F.B. **80-85 KU** 4-3-1

Visc. Red.

Reducer **S-385** RatioP.V.C. **33.4%** pHColor **White** Match **None**Gloss **45-55** Method **9-A-1**

Shrinkage

Container

Application **Brush/Roll**AD/CS **4-6 hours**Recoat Time **Overnite**Remarks **Revised to****incorporate W-951.**Formulator **Sutherland/JES**Approved by **W.T. STB**

CODE NUMBER	105 GALLON BATCH		% BY WEIGHT
	GALLONS	POUNDS	
V-2390	24.0	187.2	17.67
* E-396	0.36	5.0	0.47
* E-155	1.23	15.0	1.42
* W-951	8.07	270.0	25.48
(*) N-115	6.79	150.0	14.16
DO NOT EXCEED 130°F			
V-2390	20.0	156.0	14.72
S-385	4.0	25.2	2.38
* 369-WA-16	0.11	1.4	0.13
P-2233	30.0	210.0	19.82
S-385	4.51	28.4	2.68
* E-344	0.51	4.8	0.45
* E-304	0.25	2.0	0.19
* E-380	0.4	3.1	0.29
* E-262	0.2	1.5	0.14
(*) N-161 may be used in place of N-115.			
Yield	100.43	1059.6	100.0

MANUFACTURING INSTRUCTIONS

Pre-disperse

10-15 minutes.

Disperse to 6-7

grind.

Add before

pumping.

Letdown in tank.

Standard Formula

Not to be taken

from file

Date 5/15/69 Formula No. Y-4600-C

CLASS 323.311 419.9901 722.902

CONES 821.018

Product Spread Lustre Semi-Gloss

Enamel - Super White

DESCRIPTORS (20 spaces-limit)

Label Warning #11-62 NPVLA

Trade Name

Customer

ANALYSIS

Substrate and Treatment

Pigment 39.6 %

End Use

Vehicle 60.4 %

Specifications

100.0%

Roughly

Yes ☐No ☒

Silicone

Yes ☐No ☒

Pigment

Resins

T.O.F.A. & Soya Alkyds

Titanium Dioxide 64.3%

Calcium Carbonate 35.7%

100.0%

Color

White

Gloss

45-55

For Mix On

F. M. J. 6-16-69

Resistance

Manufactured at Plant #1-2-5-814-15-16-17

Vehicle Oleic, Linolenic,

Oleic, Palmitic, Stearic

Alkyd Resin 42.0%

Mineral Spirits

& Driers 58.0%

100.0%

Manufacturing Instructions or Remarks

Recommended Batch Size:

100 H.P. - 100 Gals.

60 H.P. - 600 Gals.

Coca Pina, Panama, Mexico, Sustained

6-24-69 (7-8)

Y-4600

965

Product: **Spred Lustre Alkyd Semi-Gloss Enamel**

Formula Number: **Y-4600-B-1**

Customer: **Super White**

Laboratory Number: **5/2/68**

R.M. Cost: **5/2/68**

CODE NUMBER	100 GALLON BATCH		% BY WEIGHT	MANUFACTURING INSTRUCTIONS	Grind	
	GALLONS	POUNDS			MPVA	Grind
Cowles Procedure For 100 Gallon Batch: SEE BACK						
V-2390	15.00	(117.0)	10.47			
E-155	(0.90)	13.0	0.98	Pre-disperse at slow speed 10-15 minutes.		
N-755	(8.64)	300.0	26.85			
N-115	(8.10)	183.0	16.38			
N-413	(0.89)	20.0	1.79			
V-2390	9.00	(70.2)	6.28	Disperse to a 6 grind-maximum temperature 130°F		
* OF N-101						
V-2390	10.00	(78.0)	6.98			
E-396	(0.36)	5.0	0.45			
369-NA-10	(0.10)	1.40	0.13	(Weigh carefully)		
E-385	3.10	(19.6)	1.75	Mix 10-15 minutes		
At 1000 RPM for 5 minutes						
V-2390	8.10	(63.2)	5.65	Set-Down		
V-2390	30.00	(240.0)	19.79			
E-385	5.00	(31.0)	2.43			
E-380	0.25	(2.00)	0.24	Standard Formula		
E-380	0.15	(1.20)	0.11	Not to be taken from file.		
E-380	0.40	(3.10)	0.31			
Yield 100 F 22.73	100.5	1120.9	100.0			

Grind: **6**

Label Warning: **11-62**

Flash Pt. °F: **100°**

N.V.W.: **68.2%**

N.V.Val.: **46.1%**

Visc. P.B. 80-85 KO: **4-C-1**

Visc. Red.: **5**

Reducer: **S-385**

P.V.C.: **38.1%**

Color: **White**

Gloss: **45-55**

Strainer: **9-A-1**

Containers: **Brush Full Body**

Application: **Brush Full Body**

AD/Boto: **1-6 hrs.**

Notes: **Overnight**

Remarks: **Standard Formula**

Formula: **Not to be taken from file.**

Formulator: **Scotchman**

Approved by: **WT. STB**

Product: **Super Latex Alkyd Concentrate Emulsion**

Customer:

Super Willow

Formula Number

Laboratory Number (Alternate)

R.M. Cost

Date

Mil

Grid

NPVLA

Load

Label Warning

METHOD

Wt./Gal.

Flash Pt. °F.

N.V. Vol.

Visc. P.B.

Visc. R&D

Reducer

P.V.C.

Color

Glass

Strainer

Container

Application

Ad/Bake

Recoat Time

Remarks

Released to replace

W-755 with W-901

Formulator

Approved by

CODE NUMBER

100 GALLON BATCH

% BY

MANUFACTURING

GALLONS POUNDS

WEIGHT

INSTRUCTIONS

1-2300

100.00 117.0

10.47

Details See Back

2-165

10.90 11.0

0.98

Pre-disperse at

W-051

8.64 300.0

26.85

slowly add to mix

W-115

8.52 188.0

16.74

minutes

1-413

0.68 15.0

1.33

1-2300

9.00 70.2

0.20

Disperse to 200

1-2300

10.00 70.2

0.20

Grind-maximum

1-2300

10.00 78.0

0.98

temp. 130 F.

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

1-2300

10.00 78.0

0.98

GLD059744

CLASS **323.311 419.9909 722.902**
CODES

Product **Spred Lustre Alkyd Semi**
Gloss En. - Super White

DESCRIPTORS (20 spaces-14 min)

Label Warning **#11-62 NPVLA**

Trade Name Customer

ANALYSIS

Substrate and Treatment

Pigment **45.0%**

End Use

Vehicle **55.0%**

Specifications

100.0%

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Pigment

Resins **V-2390, P-2233**
Titanium Dioxide 59.6%
Calcium Carbonate 36.4%
Magnesium Silicate 4.0%

Color **Alued White** Glass **Semi 45-55**
100.0%

For Use On

P. King, White, Mexico 9-5-68

Resistance

Manufactured at Phone **#1-2-3-8-11-12-14-15-16-17**
4-30 (Myers) 1-3-69

Manufacturing Instructions or Remarks

Recommended Batch Sizes For:
100 H.P. Cowles 1000 Gallons
60 H.P. Cowles 600 Gallons
30 H.P. Cowles 300 Gallons
15 H.P. Cowles 150 Gallons

Vehicle

Linoleic, Oleic, Linoleic,
Palmitic, Stearic
Alkyd Resin 42.3%
Mineral Spirits
& Driers 57.7%
100.0%
Y-4600 7681

Product **Spread Lustre Alkyd Semi-Gloss Enamel -**
 Customer **Super White**

Formula Number **Y-4600-B**

Laboratory Number

R.M. Cast Date **6/3/68**Mill **COWLES** Grind **6**

CODE NUMBER	100 GALLON BATCH		5 BY WEIGHT	MANUFACTURING INSTRUCTIONS	Cowles		Grind	6
	GALLONS	POUNDS			NPVLA Seal	-1		
Cowles Procedure For 100 Gallon Batch: See Back					Label Warning	11-62		METHOD
V-2390	15.00	(117.0)	10.47	Pre-disperse at slow speed 10-15 minutes.	Wt./Gal.	11.15		5-A-1
E-155	(0.90)	13.0	0.98		Flash Pt. °F.	100°		Theo.
H-755	(8.64)	300.0	26.85		N.V.Wt.	68.2%		Calc.
H-115	(8.10)	183.0	16.38	Disperse to a 6 grind-maximum temp. 130°F.	N.V.Val.	46.13		Calc.
H-413	(0.89)	20.0	1.79		Visc. F.B.	80-85 MI		A-C-1
V-2390	9.00	(70.2)	6.28		Visc. Red.			
* or H-161				(Weigh carefully) Mix 10-15 min.	Reducer	S-385	Ratio	
V-2390	10.00	(78.0)	6.98		P.V.C.	38.1%	pH	
E-396	(0.36)	5.0	0.45		Color	White	Match	None
385-WA-16	(0.10)	1.4	0.13	Let-Down	Gloss	45-55	Method	9-A-
S-385	3.10	(19.6)	1.75		Strainer			
At transfer-maximum temp. 125°F.					Container			
V-2390	8.10	(63.2)	5.66	Standard Formula, Not to be taken from file.	Application	Brush Full Body		
*V-2229	30.00	(210.0)	18.79		Ad. Bake	4-6 hrs.		
S-385	5.00	(31.6)	2.83		Recoat Time	Overnight		
E-304	0.25	(2.0)	0.14		Remarks	Y-56H-F (RELABEL)		
E-344	0.50	(4.6)	0.41		Formulator	Southwick		
E-262	0.16	(1.2)	0.11		Approved By	NT STB		
E-180	0.40	(3.1)						
** or V-2233								
Yield	100.5	1120.9	100.0					

Date: 6/3/68 Formula No. 7-4600

CLASS: 323.311 419.9909 722.902

Product: Spread Lustre Alkyd Semi

CODES:

Gloss En. - Super White

DESCRIPTORS (20 spaces-11in)

Label Warning: #11-62 HPVLA

Trade Name: Customer:

ANALYSIS

Substrate and Treatment:

Pigment: 45.0%

End Use:

Vehicle: 55.0%

Specifications:

100.0%

Royalty: Yes ☐ No ☒ Silicone Yes ☐ No ☒

Pigment

Resins: 7-2390, 7-2233

Titanium Dioxide 59.6%

Calcium Carbonate 36.4%

Magnesium Silicate 4.0%

Color: Blued White Gloss: Semi 45-55

100.0%

For Use On:

C. Roca, Panama, Mexico

Resistance:

Guatemala 6-21-68

Manufactured at Plant: #1-2-3-8-11-12-14-15-16-17

6-10-68

7-30 (Engstrom) 6-11-68

Vehicle

#20 (Mylar) 1-2-68

Linoleic, Oleic, Linolenic,

Manufacturing Instructions or Remarks:

Palmitic, Stearic

recommended Batch Sizes For:

Alkyd Resin 42.3%

100 H.P. Cows 1000 Gallons

Mineral Spirits

60 H.P. Cows 600 Gallons

& Driers 57.7%

20 H.P. Cows 200 Gallons

100.0%

20 H.P. Cows 200 Gallons

7-4600 7581

Product: **Spred Lustre Alkyd Semi-Gloss Enamel -**

Customer: **Super White**

Formula Number: **V-2**

Laboratory Number:

R.M. Cost: Date:

Mill: **Cowles** Grin:

NPVLA: **Lead**

Label Warning: **11-52**

Lit. Gal.: **11.14**

Flash Pt.: **100°**

N.V. Wt.: **68.25** Calc.:

N.V. Vol.: **46.15** Calc.:

Visc. F.B.: **80-85 KU** 4-C-1

Visc. Red.:

Reducer: **S-385** Ratio:

P.V.C.: **98.1%** pH:

Color: **White** Match: **None**

Gloss: **50-60** Method: **9-A-1**

Strainer:

Container:

Application: **Brush Full Body**

AD/Bake: **4-6 hrs.**

Recoat Time: **Overnight**

Remarks:

To use V-2229

from File

Formulator: **Southwick**

Approved by: **WT STE**

CODE NUMBER: 100 GALLON BATCH
GALLONS POUNDS % BY WEIGHT

Cowles Procedure For 100 Gallon Batch: SEE BACK
V-2390 15.00 (117.0) 10.47
K-155 (0.90) 13.0 0.98
W-755 (8.64) 300.0 26.85
N-113 (8.10) 183.0 16.38
N-413 (0.89) 20.0 1.79
V-2390 9.00 (70.2) 6.28
V-2390 10.00 (78.0) 6.98
E-396 (0.38) 5.0 0.45
369-WA-16 (0.10) 1.40 0.13
S-385 3.10 (19.6) 1.75
At transfer maximum temp. 125°F.
V-2390 8.10 (63.2) 5.66
V-2229 30.00 (210.0) 18.79
S-385 5.00 (31.6) 2.83
E-304 0.20 (1.60) 0.14
E-344 0.50 (4.50) 0.41
E-262 0.15 (1.20) 0.11
Yield 100.05 1117.40 100.0
Standard Temperature
Not to be taken
from File
Lat-Down
Standard Temperature
Not to be taken
from File
Lat-Down
Standard Temperature
Not to be taken
from File
Lat-Down
Standard Temperature
Not to be taken
from File
Lat-Down
Standard Temperature
Not to be taken
from File
Lat-Down
Standard Temperature
Not to be taken
from File
Lat-Down
Standard Temperature
Not to be taken
from File
Lat-Down

Date 10/30/67 Formula No. 4600-A

CLASS	323	311	419	0909	722	902
-------	-----	-----	-----	------	-----	-----

COBAS

Product Spread Lure Alkyl Sulfate

Gloss Enamel-Super White

Label Warning : #11-62-NPVT-A

DESCRIPTORS (28: 225553-1111)

Trade Name	Spread Lintre	Consumer	Trade Sales
------------	---------------	----------	-------------

Symptoms and Treatment

End Use:

Species: *Enjion*

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

ANALYSIS

Pigment 5.0

Vehicle 65' 0

1. 具有下列情形之一者，不得担任辩护人、诉讼代理人：

Resid.: V-2790. F-2233

Pigment

Titanium Dioxide	50.69
------------------	-------

Calcium Carbonate	36.43
-------------------	-------

Magnesium Silicata 4.0%

100-43

Color	Blue	White	Gloss	Semi-Gloss	50-60
-------	------	-------	-------	------------	-------

For Use On

Resistances

Manufactured at Plant 1-2-5-8-11-12-14-15-16-17

Vehicle

Linoleic, Oleic, Linolenic

Permilio, Steerio

Alkyd Resin	42.35
-------------	-------

Mineral Spirits

~~DELETED~~ 57-26

100.02

Manufacturing Instructions or Recommended Batch

SIZE: 10F:

100 H.P. Coupler - 1000 Gallons

60 H.P. CONTAINER - 600 GALLONS

TO: AFR, COMIGB - 500 Gallons

~~JOHN F. CORLES - 400 Gallons~~

~~SECRET~~

GLD059749

Product **Spread Lustre Alkyd Semi-Gloss Enamel -**
 Customer **Super White**

Formula Number **Y-4600-A BASE**Laboratory Number **62000-1005**R.M. Cost Date **10/30/6**

CODE NUMBER	100 GALLON BATCH		S BY WEIGHT	MANUFACTURING INSTRUCTIONS	Mill Cowles		Grind	
	GALLONS	POUNDS			NPVLA	Lead		
Cowles Procedure for 100 Gallon Batch : SEE BACK					Label Warning	11-62		
V-2390	15.00	(117.0)	10.47	Pre-disperse at slow speed 10-15 minutes.	Wt. Col.	11.1%		
E-155	(0.90)	11.0	0.98		Flash Pt.	400		
W-755	(8.64)	300.0	26.85		N.V.Wt.	68.2%		
N-113	(8.10)	183.0	16.38	Disperse to a 6 grind-maximum temperature 130°F.	N.V.Vol.	46.1%		
N-413	(0.89)	20.0	1.79		Visc. F.B.	80-85 KU		
V-2390	9.00	(70.2)	6.28		Visc. Red.			
V-2390	10.00	(78.0)	6.98		Reducer	S-385	Ratio	
					P.V.C.	38.1%	pH	
					Color	White	Match	None
E-396	(0.36)	5.0	0.45	(Weigh carefully)	Gloss	50-60	Method	9-A-1
369-WA-16	(0.10)	1.40	0.13		Strainer			
S-385	3.10	(19.6)	1.75		Containers			
At transfer maximum temp. 125°F.					Application	Brush Full Body		
V-2390	8.10	(63.2)	5.66	Let-Down	Ab. Bake	4-6 hrs.		
P-2233	30.00	(210.0)	18.79	Standard Formula. Not to be taken from file.	Repeat Time	Overnight		
S-385	5.00	(31.6)	2.83		Remarks	Changed to use odorless P-2233 & S-385.		
E-304	0.20	(1.60)	0.14		Formulator	Bednarik/Southwick		
E-344	0.50	(4.60)	0.41		Approved by	S.T.B.		
B-262	0.16	(1.20)	0.11					
Yield	100.05	1117.40	100.00					

Date 10/30/67

Formula No. 4600-A

CLASS 323.311 419.9909 722.902

CODES

Product Spread Lustre Alkyd Semi-

Gloss Enamel-Super White

Label Warning #11-62-HPVIA

DESCRIPTORS (20 spaces-limit)

Trade Name Spread Lustre

Customer Trade Sales

Substrate and Treatment

End Use

Specifications

Rogarty

Yes ☐No ☒

Silicone

Yes ☐No ☒

Pigment

Resins V-2390, P-2233

Color Blued White

Gloss Semi-Gloss 50-60

For Use On

Resistance

Manufactured at Plants

Manufacturing Instructions or Remarks

Sizes for:

100 H.P. Cows - 1000 Gallons

60 H.P. Cows - 600 Gallons

50 H.P. Cows - 500 Gallons

40 H.P. Cows - 400 Gallons

ANALYSIS

Pigment 15.0 %

Vehicle 55.0 %

100.0%

Titanium Dioxide 59.6%

Calcium Carbonate 36.4%

Magnesium Silicate 4.0%

100.0%

#5 (R.H.) 3-5-68

Vehicle

Dioleic, Oleic, Linolenic,

Palmitic, Stearic

Alkyd Resin 42.3%

Mineral Spirits &

Driers 21.7%

100.0%

4600

7601

GLD059751

Product **Spred Lustre Alkyd Semi-Gloss Enamel**

Customer **Super White**

Formula Number **Y-4600-A**

Laboratory Number

R.M. Cost

Date **10/30/6**

Mill **Cowles**

Grind

NPV: **1** Lead

Label Warning **11-62**

Wt./Gal. **11.1#**

Flash Pt. **300**

N.V.W. **68.2%**

N.V. Vol. **46.1%**

Visc. F.B. **80-85 KU**

Visc. Red.

Reducer **S-385**

Ro

P.V.C. **38.1%**

Color **White**

Match **None**

Gloss **50-60**

Method **9-A-1**

Strainer

Canliner

Application **Brush Full Body**

Let-Down

ND Base

Recoat Time

Remarks

Changed to use odorless P-2233 & S-385

Formula

Bednarik/Southwick

Approved by

S.T.B.

CODE NUMBER	100 GALLON BATCH		S.B.Y. WEIGHT	MANUFACTURING INSTRUCTIONS
	GALLONS	POUNDS		

Cowles Procedure for 100 Gallon Batch : SEE BACK

V-2390	15.00	(117.0)	10.47	
--------	-------	---------	-------	--

E-155	(0.90)	11.0	0.98	
-------	--------	------	------	--

W-755	(8.64)	300.0	26.85	
-------	--------	-------	-------	--

N-113	(8.10)	183.0	16.38	
-------	--------	-------	-------	--

N-413	(0.89)	20.0	1.79	
-------	--------	------	------	--

V-2390	9.00	(70.2)	6.28	
--------	------	--------	------	--

				Disperse to a 6
--	--	--	--	-----------------

				grind-maximum
--	--	--	--	---------------

				temperature 130°F.
--	--	--	--	--------------------

V-2390	10.00	(78.0)	6.98	
--------	-------	--------	------	--

E-396	(0.35)	5.0	0.45	
-------	--------	-----	------	--

369-WA-16	(0.10)	1.40	0.13	(Weigh carefully)
-----------	--------	------	------	-------------------

S-385	3.10	(19.6)	1.75	Mix 10-15 minutes.
-------	------	--------	------	--------------------

				At transfer-maximum temp. 125°F.
--	--	--	--	----------------------------------

V-2390	8.10	(63.2)	5.66	
--------	------	--------	------	--

P-2233	30.00	(210.0)	18.79	
--------	-------	---------	-------	--

S-385	5.00	(31.6)	2.83	
-------	------	--------	------	--

E-304	0.20	(1.60)	0.14	
-------	------	--------	------	--

E-344	0.50	(4.60)	0.41	
-------	------	--------	------	--

E-262	0.16	(1.20)	0.11	
-------	------	--------	------	--

Total	100.05	1117.40	100.00	
-------	--------	---------	--------	--

DISC Formula
Standard
Not to be taken
from file

CLASS		323.311 419.9909 722.002		Date	10/30/67	Formula No.	Y-4600-A
CODES				Product	Spreed Lustre Alkyd Semi-Gloss Enamel Super White		
DESCRIPTORS (20 spaces - limit)				Label Warning	#11-62 NPLA		
Trade Name		Spreed Lustre		Customer	Trade Sales		
Substrate and Treatment				ANALYSIS			
End Use				Pigment	45.0		
Specifications				Vehicle	55.0		
Royalty: Yes ☐ No ☐ Silicone Yes ☐ No ☐				Pigment	100.0%		
Resins				Titanium Dioxide 59.6%			
V-2390, F-2233				Calcium Carbonate 36.4%			
Color				Magnesium Silicate 4.0%			
Blue White				100.0%			
Glass							
For Use On				Semi-Gloss 50-60			
Resistance							
Manufactured at Plant				4-28-68			
1-2-5-8-11-12-14-15-16-17				Vehicle			
Manufacturing Instructions or Recommended Batch				Linoleic, Oleic, Linolenic, Palmitic, Stearic			
Sizes for:				Alkyd Resin 42.3%			
100 H.P. Cowles - 1000 Gallons				Mineral Spirits & Driers 57.7%			
50 H.P. Cowles - 600 Gallons				100.0%			
50 H.P. Cowles - 500 Gallons							
40 H.P. Cowles - 400 Gallons							
				Y-4600 7601			

Date 3/1/67 Formula No. Y-4600-WCLASS Product Spread Lustre Alkyd S. O.
CODES En. - Super WhiteDESCRIPTORS (20 spaces-limit) Label Warning #11-62 NFVLATrade Name Customer ANALYSISSubstrate and Treatment: Pigment 43.8 %End Use Vehicle 56.2 %Specifications 100.0%Royalty: Yes ☐ No ☒ Silicone: Yes ☐ No ☒ PigmentResins: V-2390, F-2375 Titanium Dioxide 61.2%Calcium Carbonate 38.8%100.0%Color: White Gloss: Semi-GLOSS 10-15 107.5For Use On: 55-65 8-8 67.5Resistance 3-6 68Manufactured at Plants: #1-2-4-5-8-11-12-14-15-16-17 3-15 27

Vehicle

Linoleic, Oleic, Linolenic,

Palmitic, Stearic,

Alkyd Resin 43.8%

Mineral Spirits &

Driers 56.2%100.0%

NO CHANGE IN ANALYSIS

Y-4600 666

GLD059755

C&R FORMULA

Glidden Form 1109-1. Printed in U.S.A. 5/65

BASE

Product Sored Lustre Alkyd Semi-Gloss Enamel -				Formula Number Y-4600-0	
Customer Super White				Laboratory Number	
CODE NUMBER	100 GALLON BATCH	BY WEIGHT	MANUFACTURING INSTRUCTIONS		
	GALLONS POUNDS				
V-863-A	15.00 (117.0)	--	R.M. Cost Date 6/17/63		
VR-959	(0.82) 10.0	0.89	Mill Cowles Grind 0		
			S Lead Less than 1		
H-255	(8.64) 300.0	26.82	Boil 11.17 Method 5-A-1		
H-154	(8.42) 190.0	16.98	Flash Pt. F-100 Method Theor		
V-863-A	19.00 (148.2)	--	H.V. Wt. 63.48 Method Calc		
			H.V. Val. 47.48 Method Calc		
			Visc. F.B. 77-82 Method 4-C-1		
			Visc. Red. Method		
			Reducer S-340 Ratio		
R-353	(0.36) 5.0	0.44	P.V.C. 35.9% pH		
369-WA-	(0.10) 1.40	0.12	Color White Match		
			Gloss 55-65 Method 9-A-		
V-863-A	15.70 (122.5)	34.65	Shiner		
V-895	20.00 (145.0)	12.96	Container		
S-340	11.10 (72.2)	6.48	Label Warning #11-62 NFVLA		
VM-524	0.20 (1.6)	0.24	Application Brush		
VM-526	0.50 (4.6)	0.41	Cure Air-dry: 4-6 hours		
CB-359	0.15 (1.2)	0.21	Recoat: Overnight		
			Remarks Changed to use		
			U-863-A & V-895		
			Formulator J. Southwick/Padner		
			Approved by S. Powell		
Yield for batch			100.00 1118.7 100.0		
			MANUFACTURING TEMP. 130°F		
			MUST NOT BE KEPT		

GLD059756

CLASS		6/17/66	ANALYSIS	Y-4600
CODES			Pigment	43.8
DESCRIPTORS (20 spaces - limit)			Vehicle	56.2
Trade Name	Spred Lustre	Customer		100.0
Substrate and Treatment		Pigment		
End Use		Titanium Dioxide		61.25
Specifications		Calcium Carbonate		38.85
Royalty	Yes ☐ No ☒	Silicone	Yes ☐ No ☒	100.0
Resins	Tall Oil Ortho Phthalic Alkyd V-863-A & Tall Oil Flat Wall Resin V-895			
Color	White	Gloss	Semi-Gloss 55-65	
For Use On				
Resistance	Vehicle			
Manufactured at Plants	#1-2-4-5-8-11-12-14-15-16-17		Linoleic, Oleic, Linolenic, Palmitic, Stearic, Alkyd Resin	
	7-28-66-41		43.85	
	30 (Enphom) + (Beck) 7-28-66-41		Mineral Spirits & Driers	
	47-66-66		55.25	
	8-11-66-61		100.0	
	Columbia, C. Line, Bowdler 10-11-66-61		Warning #11-62 NFVLA	
	W. Hermann, Edinburg, Texas 10-12-66-61			
	Jorgensen (Hick), Arizona, Penn, 10-12-66-61			
	The Endless Sweden 10-12-66-61		2-4600 666	
Glosses Form 1109-L (back) Printed in U.S.A. 9/61				

GLD059757

GOODS: Spred Lustre - Super White

FORMULA NO. Y-4600-T size

LABORATORY NO. (Pebble)

CONSISTENCY

COST CLASS: DATE 5/26/64

FOR USE ON Mfg. plants #1-2-4-5-8-11-12-14-15-16-17

STRAINER: GRIND 6

CUSTOMER: Less than 15 Lead

MILL Pebble WT. OR BELT 77

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
M-255				(8.72)	300.0		WISC. F.B. 72-74 KU TEMP. 77
M-154				(5.54)	125.0		WISC. RED. TEMP.
M-199	NO CHANGE			(0.89)	20.0		VISCOSIMETER Stormer
M-218	Premix FOOD USE			(0.27)	4.0		COLOR White SHEEN 60-65
S-91				0.30	(2.0)		NON VOL. 64.7% FLASH PT. 100°F
CH-185				(0.68)	6.0		WATCH FOR
36 9-WA-16	(Weigh Carefully)			(0.10)	1.40		REDUCER S-240
M-333	(Add at first let-down)			(0.37)	5.2		MT. FOR BRUSHING Full Body
V-891	(20 gals. in grind)			62.00	(471.0)		SPRAYING TUMBLING
S-240	(13 gals. in grind)			20.40	(133.0)		DIPPING DRIP TIME
VM-534				0.37	(3.00)		BAKE TEMP.
VM-816				0.75	(5.40)		AIR DRIES IN 4-5 hours
CH-359	Standard Formula			0.14	(1.10)		A. D. TO RECOAT IN Overnight
M-443	Not to be taken from file					4-1/2 Loz	REMARKS: Changed to new shading procedure.
							NV by Vol. 42.0%
							PVC 37.4%
							MILL Base 49.6%
							FORMULATOR J. E. Southwick
YIELD				100.53	1077.10		

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 41 %	Y-4600-T
		VEHICLE 59 %	Sored Lustre - Super White
		100 %	5/26/51
		PIGMENT	
		Titanium Dioxide 68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate 28.9	
		Magnesium Silicate 3.0	No change in analysis
		100.0%	
			<i>Y Emerald tint 8-10-60</i>
			<i>2-2-4-5-8-11-12-14-15-16-17</i>
		Tinting material less than 5%	
			<i>Puerto Rico 8-28-64</i>
		VEHICLE	<i>Check (CBS, V/MARK) 7-10-1-2-3-4</i>
		Soya Alkyl Resin 38.5%	
		Mineral Spirits & Driers 61.5	<i>#.6 10-27-64</i>
		100.0%	
			<i>7-30 (Experiments) 12-29-64</i>
		<i>Sweden 7-8-65</i>	
			<i>W. Indies 1-5-65</i>
			<i>Panama 1-12-65</i>
			<i>11</i>
			<i>Guatemala 2-8-65</i>
		Y-4600	069

GLD059759

GOODS Sored Lustre - Super White

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 5/26/64

FOR USE ON MFR. plants #1-2-4-5-8-11-12-14-15-16-17

STRAINER

GRIND 6

CUSTOMER Less than 1% Lead

MILL Cowles

WT. OR BELO 7#

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
Add in order listed:							VISC. F. 3.72-74 KU TEMP. 77°F
V-891				36.00	(273.6)		VISC. RED. TEMP.
H-218				(0.27)	4.0		VISCOSIMETER Stomper
H-199				(0.89)	20.0		COLOR White SHEEN 60-65
H-255				(8.72)	300.0		NON VOL 64.7% FLASH PT 100°F
H-154				(5.54)	125.0		MATCH FOR
369-WA-16 (Weigh carefully)				(0.10)	1.40		REDUCER S-240
Disperse to a 6 grind, then add:							AMT. FOR BRUSHING Full Body
CH-185				(0.68)	6.0		SPRAYING TUMBLING
S-333				(0.37)	5.2		DIPPING DRIP TIME
S-91				0.30	(2.0)		BAKE TEMP.
Mix 5-10 minutes, then let-down:							AIR DRIES IN 4-5 hours
V-891				26.00	(197.4)		A.D. TO RECOAT IN Overnight
S-240				20.40	(133.0)		REMARKS: Changed to new
VN-574	Standard Formula			0.37	(3.00)		Shading procedure
VN-816				0.75	(5.40)		NV by Vol. 42.0%
CH-359				0.14	(1.10)		PVC 37.4%
M-443							MILL Base 51.2%
						4-1/2	
						LOZ.	FORMULATOR J. E. Southwick
YIELD				100.53	1077.20		

GOODS: Spred Laistre - Super White

FORMULA NO. Y-4600-T (Sand)

CONSISTENCY

LABORATORY NO. Mill

FOR USE ON Mig. Plants #1-2-5-8-12-14-16-17

COST CLASS BASE DATE 5/26/6

CUSTOMER: Less than 1% Lead

STRAINER GRIND 6

MILL and Mill 7 WT. OR BE 10.7%

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
Premix:							
W-255 (Viscosity of premix)				(9.72)	300.0		WISCOSINETER Störz
W-154 (Should be approxi-				(5.54)	125.0		COLOR White GREEN 50-65
W-199 (nately 75 KU)				(0.89)	20.0		NON VOL. 64.7% FLASH PT. 100°F
W-218 Premix				(0.27)	4.0		MATCH FOR
S-91				0.30	(2.0)		REDUCER S-240
CH-185				(0.68)	6.0		W. FOR BRUSHING Mill Body
369-NA-16 (Weigh carefully)				(0.10)	1.40		SPRAYING TUMBLING
V-891				15.00	(114.0)		DIPPING DRY TIME
S-240				15.00	(97.8)		BAKE TEMP.
Disperse to a 6 Grind, then add:							
V-891				47.00	(357.0)		AIR DRIES IN 4-5 hours
S-240				5.40	(35.2)		A. D. TO RECOAT IN Overnight
M-333				(0.37)	5.2		REMARKS:
VM-534	Standard formula taken from File.			0.37	(3.00)		NV by Vol. 42.0%
VM-816				0.75	(5.40)		PVC 37.4%
CH-359				0.14	(1.10)		Mill Base 46.6%
M-443						4-1/2 Loz.	
YIELD				100.53	1077.10		FORMULATOR J. E. Southwick

GLD059762

[illegible]

GLD059763

NAME: Spred Lustre - Super White

COST CLASS: 5435 DATE: 6/17/6

PERSISTENCY

STRAINER: GRIND: 6

IR USE ON: Mfg. Plants - 1-2-5-8-12-14-16-17

MILL: Sand Mill WT. OR E

ISTOMER: Less than 1% Lead

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
Premix:							VISC. F. B. 72-74 KMP.
W-255 (Viscosity of premix)			(8.72)	300.00			VISC. RED. TEMP.
W-154 (Should be approxi-			(5.54)	125.0			VISCOSIMETER Stormer
W-199 (nately 75 KU)			(0.89)	20.0			COLOR White SHEEN
W-218			(0.27)	4.0			RED VOL. 64.7% FLASH PT
							MATCH FOR
CH-185			(0.68)	6.0			REDUCER S-240
360-WA-36 (Weigh carefully)			(0.10)	1.40			WNT. FOR BRUSHING Full Body
V-891			15.00	(114.0)			SPRAYING TUMBLING
S-240			15.00	(97.8)			DIPPING DRIP TIME
Disperse to a 6 Grind, then add:							BASE TEMP.
V-891			47.00	(357.0)			
S-240			5.40	(35.2)			AIR DRIES IN 4-5 hours.
M-333			(0.37)	5.2			A.D. TO RECOAT IN Overnight
VM-534			0.37	(3.00)			REMARKS:
VM-816			0.75	(5.40)			NV by Vol. 42.0%
CH-359			0.14	(1.10)			PVC 37.4%
S-91			0.30	(2.00)			Mill Base 46.6%
M-443						4-1/2	
						LOZ.	
							FORMULATOR J. E. Southwick
YIELD:			100.53	1077.10			

FORMULA NO. Y-4600-S (Pebble

GOODS Spread Lustre - Super White

LABORATORY NO. BASE

CONSISTENCY Mfg. at plants #1-2-4-5-8-11-12-14-15-16-17 COST CLASS DATE 7/2/63

FOR USE ON STRAINER GRIND 6

CUSTOMER Less than 1% Lead MILL Pebble WT. OR BE 10.7

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	VISC. F.	TEMP.
M-255				(8.72)	300.0		72-74 KU	77°F
M-154				(5.53)	125.0		VISCOSIMETER	Stormer
M-109				(0.88)	20.0		COLOR	White SHEEN 60-65°
M-333				(0.40)	5.2		NON VOL	FLASH PT 100°F
CH-185				(0.68)	6.0		WATCH FOR	Y-4600
W-218	Remix			(0.27)	4.0		REDUCER	8-240
S-91				0.30	(2.0)		ANT. FOR BRUSHING	F.B.
V-891	(20 gals. in grind)			62.0	(471.0)		SPRAYING	TUMBLING
S-240	(13 gals. in grind)			20.4	(132.0)		DIPPING	DRIP TIME
VH-534				0.37	(3.00)		BAKE	TEMP.
VH-816	Standard Formula			0.75	(5.55)		AIR DRIES IN	4-5 hours
CH-359	Not to be taken			0.14	(1.08)		A.D. TO RECOAT IN	Overnight
M-443	from file						REMARKS	CH-185 increased for better flow control.
							Loz. PVC	37.0%
369-WA-16				Trace			NV by Vol.	41.5%
							NV by Wt.	64.6%
							Mill Base	49.4%
							FORMULATOR	J. E. Southwick
YIELD	SEE	1-4600-7		100.44	1074.83			

DISCONTINUED

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 41	Y-4600-9
		VEHICLE 59	Spred Lustre - Super White
		100 %	7/2/63
		PIGMENT	Warning No. 11-62 NPVLA
		Titanium Dioxide 68.15	No change in analysis
		Calcium Carbonate 28.9	
		Magnesium Silicate 3.0	
		100.0%	
			Y Enamel Test 7-16-63
			# 1-2-4-5-8-11-12-14-15-16-17
		Tinting material less than 5%	England (British) 7-19-63
			Perman 10-4-63
		VEHICLE	
		Soya Alkyd Resin 38.5%	
		Mineral Spirits & Driers 61.5	Perma 11-4-63 (2)
		100.0%	
		Equation 4-27-64 (3)	Lat Japan 2-12-64
			West India 3-3-64
			Guatemala 3-2-64
			Perman 3-26-64 (2)
			Manila 3-31-64
			Colombia 4-14-64 (2)
			Perma 4-22-64
		Y-4600 069	

GLD059767

[illegible]

GOODS Spread Lustre - Super White

LABORATORY NO.

CONSISTENCY Hg. at plants #1-2-4-5-8-11-12-14-15-16-17

COST CLASS. BASE DATE

FOR USE ON

STRAINER GRIN

CUSTOMER Lead Free

MILL Pebble WT.

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
V-255				(8.72)	300.0		VISC. P.B. 72-74 KUDEM
N-154	Standard Formula			(5.53)	125.0		VISC. RED. TEMP.
V-199	Not to be taken from file.			(.88)	20.0		VISCOSIMETER Stormer
N-331				(.4)	5.2		COLOR White SHEN 60-65
CH-185				(.34)	3.0		NON-VOL. FLASH PT. 100
V-218) Premix				(.27)	4.0		WATCH FOR Y-4600
S-91				(.30)	(2.0)		REDUCER S-240
V-891 (20 gals. in grind)				62.0	(471.0)		AMT. FOR BRUSHING P.B.
S-240 (13 gals. in grind)				20.4	(132.0)		SPRAYING TUBING
							DIPPING DRIP TIME
							BAKE TEMP.
VM-534	DISCONTINUED			.37	(3.00)		AIR DRIES IN 4-5 hrs.
VM-816				.75	(5.55)		A. D. TO RECOAT IN Overnight
CH-359				.14	(1.08)		REMARKS: Reissued to replace
N-443	SEE Y-4600-S				4-1/2		S-72 & use 369 base.
					Loz.		PVC 37.0%
369-NA-16				Trace			NV by Vol. 41.5%
							NV by Wt. 64.6%
							MILL Base 49.4%
							FORMULATOR J. E. Southwick
YIELD				100.10	1071.83		

FORMULA NO. Y-4600-R (Cowles)

GOODS Spred Lustre - Super White

LABORATORY NO. 1182

CONSISTENCY

COST CLASS. DATE 2/26/63

FOR USE ON K Mfg. at plants #1-2-4-5-8-11-12-14-15-16-17

STRAINER GRIND 6

CUSTOMER Lead Free

MILL Cowles WT. OR BE 10.75

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	VISC. F.B.	TEMP.
Add in order listed:								
V-591				36.0	(273.6)		VISC. RED.	TEMP.
H-218	DISCONTINUED			(0.27)	4.0		VISCOSIMETER	Stormer
W-199				(0.88)	20.0		COLOR	White
H-255	SEE Y-4600-2			(8.72)	300.0		NON VOL.	FLASH PT. 100°F
W-154	SEE Y-4600-2			(5.53)	125.0		MATCH FOR	Y-4600
Disperse to a 6 grind and add:								
CH-185				(0.34)	3.0		REDUCER	S-240
H-333				(0.40)	5.2		ART. FOR BRUSHING	
S-91				0.30	(2.0)		SPRAYING	TUNING
Mix 5 min.								
V-891				26.0	(197.6)		DIPPING	DRIP TIME
S-240				20.4	(132.0)		BAKE	TEMP.
VH-534				0.37	(3.00)		AIR DRIES IN	4-5 hrs.
VH-816				0.75	(5.55)		A. D. TO RECDAT IN	Overnight
CH-359				0.14	(1.08)		REMARKS	Reissued to replace
H-443							S-72 & use	369 base.
369-HA-16				Trace		4-1/2 Lbs.	Mill Base	50.0%
							NV by Vol.	41.5%
							PVC	37.0%
							NV by Wt.	63.9%
							FORMULATOR	J. E. Southwick
YIELD				100.10	1071.83			

Standard Formula
Not to be taken
from file

[illegible]

GLD059773

COPIES: Spread Lustre - Super White

LABORATORY NO. Tallent Drift

CONSISTENCY: 1-2-4-5-2-11-17

COST CLASS. DATE 6/16/61

FOR USE ON: Fig. at plants #2-8-16-17

STRAINER GRIND 6

STOCKER: less than 1% Lead

MILL Pebble WT. OR BE 10.7

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
W-255	130			(8.72)	300.0		VISC. F.B. 72-74 RTMP
U-154				(5.53)	125.0		VISC. RED. T.M.P.
K-100				(.88)	20.0		VISCOSIMETER Stormer
M-333				(.4)	5.2		COLOR SHEEN 60-55°
ES-185				(.34)	3.0		NON VOL. FLASH PT.
W-218) Pre-Mix				(.27)	4.0		BATCH FOR Y-4600
S-72				.21	(1.4)		REDUCER S-240
							ANT. FOR BRUSHING
Y-891 (20 gals. in grind)				62.0	(471)		SPRAYING TIMING
S-240 (18 gals. in grind)				20.4	(132)		DIPPING DRIP TIME
							BAKE TEMP.
VM-534				.37	(3.00)		
VM-816				.75	(5.55)		AIR DRIES IN 4-5 hrs.
CH-359				.14	(1.08)		A. D. TO RECOAT IN O.N.
S-1143						4-1/2 Loz.	REMARKS: Changed to improve gloss and sag.
181-4-6				Trace			ENV by Vol. 41.5
							ENV by Wt. 64.6
							% Mill Base 49.4
							FORMULATOR J.E. Southwick
YIELD				100.01	1071.23		

Standard
Not
To Be
Used
For
File

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT	
		VEHICLE	Spico Lubric - Super White
			WARNING NO. 11-62 NPYLA
			(10-9-62)
		PIGMENT	6/16/63
		Titanium Dioxide 58.14	
		Calcium Carbonate 28.9	
		Magnesium Silicate 3.0	
		100.04	No change in analyses
			#1 Diesel 6-7-62 ①
			#16-17 6-7-62 ① per
		Painting material less than 5%	Eden
		VEHICLE	Attached and sent to #2-8
		Soybean Alkyd Resin 58.9	
		Mineral Spirits & Drier 61.5	
		100.04	#1 (Y Presol Test) 8-8-62 ①
			Plants 4-5-12-14-15 10-2-62 ①
			Per Captain 11-1-62
			Capt. Kean 16-1-62
			Per Captain 2-14-63 ①
		2-15-63	

GLD059775

FORMULA RECORD

FORMULA NO.

GOODS

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE

YIELD USE BY

STRAINER

GRIND

CUSTOMER

MILL

WT. OR BE

CODE

ONE GALLON BATCH

LARGE BATCH

IS AGITATOR REQUIRED

NUMBER

PINTS

LBS.

OZS.

GALS.

LBS.

OZS.

VISC. F.B.

TEMP.

VISC. RED.

TEMP.

VISCOSIMETER

COLOR

SHEEN

FLASH PT.

MATCH FOR

REDUCER

AMP. FOR BRUSHING

SPRAYING

TIMING

DIPPING

DRIP TIME

BAKE

TEMP.

AIR DRIES IN

A.O. TO RECOAT IN

REMARKS

FORMULATOR

YIELD

OLD + DISCONTINUED

Y 4600 LINE

Do Not Use

[illegible]

GLD059777