GLIDDEN-DURKEE AND H PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS

CONSISTENCY

FOR USE ON

CUSTOMER

FORMULA NO.

LABORATORY NO.

COST CLASS. DATE

STRAINER GRIND

MILL WT. OR BE

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.

GLIDDEN 480-H PRINTED IN U.S.A. FROM

FORMULA RECORD

FORMULA NO. Y-4600-Q BAS

GOODS Spred Lustre - Super White

LABORATORY NO. Tallate Driers

CONSISTENCY

COST CLASS DATE 6/16/51

FOR USE ON Mfg. at plants #2-8-16-~~16~~ 17

STRAINER GRIND 0

CUSTOMER Less than 1% Lead

MILL Pebble WT. OR BE 10.7

CODE NUMBER	ONE GALLON BATCH PINTS	LBS	OZS	LARGE BATCH GALS	LBS	OZS
W-255				(8.72)	300.0	
W-154				(5.53)	125.0	
W-199				(.88)	20.0	
W-333				(.4)	5.2	
OR-185				(.34)	3.0	
W-218) Pre-Mix				(.27)	4.0	
S-72				.21	(2.4)	
Y-891 (20 gals. in grind)				62.0	(471)	
S-240 (13 gals. in grind)				20.4	(132)	
TR-524				.37	(3.00)	
TR-816				.75	(5.55)	
DR 359				.14	(1.08)	
W-113						4-1/2
391-4-6				Trace		Loz.
YIELD				100.01	1071.23	

REMARKS: Changed to improve gloss and sag.

ENV by Vol. -41.5

ENV by Wt. -54.6

Mill Base - 49.4

FORMULATOR J.S. Southwick

GLD059932

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 41 %	Y 4600 Q
		VEHICLE 59 %	Spred Lustre - Super white
		100%	WARNING NO. 11-62 NPVLA (10-9-62)
		PIGMENT	6/16/61
		Titanium Dioxide 68.1%	~~Nat'l Label Warning~~
		Calcium Carbonate 28.9	
		Magnesium Silicate 3.0	No change in analysis
		100.0%	#1 Drees 6-7-62 ①
			#16-17 6-7-62 ① per Ed
		Tinting material less than 5%	
		VEHICLE	Attached card sent to #2-8
		Soya Alkyd Resin 38.5 %	
		Mineral Spirits & Drier 61.5	
		100.0%	#1 (Y Enamel Lit) 8-8-62 ①
			Plant # 4-5-12-14-15 10-2-62
			Zeer & Caporas 11-1-62
			Costa Rican 6-14-62
			Germany 2-14-63
		Y-4600- 060	

GLD059933

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FORMULA RECORD

FORMULA NO. Y-4600-R (Cowles)

GOODS Spred Lustre - Super White

LABORATORY NO. BASE

CONSISTENCY

COST CLASS

DATE 2/26/63

FOR USE ON x 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 10.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Add in order listed:						
VW-891				36.0	(273.6)	
MW-218				(0.27)	4.0	
MW-199				(0.88)	20.0	
MW-255				(8.72)	300.0	
MW-154				(5.53)	125.0	
Disperse to a 6 grind and add:						
CGH-185				(0.34)	3.0	
MM-333				(0.40)	5.2	
SS-91				0.30	(2.0)	
Mix 5 min.						
VW-891				26.0	(197.6)	
SS-240				20.4	(132.0)	
VWM-534				0.37	(3.00)	
VWM-816				0.75	(5.55)	
CGH-359				0.14	(1.08)	
MM-443						4-1/2 Loz.
3609-WA-16				Trace		
YIELD				100.10	1071.83	

DISCONTINUED

SEE Y-4600-S

Standard Formula Not to be taken from File

IS AGITATOR REQUIRED

VISC. F.B. 72-74 KU TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR White SHEEN 60-65°

NON VOL. FLASH PT. 100°F

MATCH FOR Y-4600

REDUCER S-240

ANT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN Overnight

REMARKS Reissued to replace S-72 & use 369 base.

Mill Base 50.0%

NV by Vol. 41.5%

PVC 37.0%

NV by Wt. 63.9%

FORMULATOR J. E. Southwick

GLD059934

COSOST	DATE	ANALYSIS		CUSTOMERS Y-4600-R
		PIGMENT 41 %		Spred Lustre - Super White
		VEHICLE 59 %		
		100 %		
		PIGMENT		2/26/6
		Titanium Dioxide	68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate	28.9	
		Magnesium Silicate	3.0	No change in analysis
			100.0%	
				Y Enamel List 3-5-63
		Tinting material less then 5%		#1-2-4-5-8-11-12-14-15-16-17
		VEHICLE		Engstrom 6-7-63 (3)
		Soya Alkyd Resin	38.5%	
		Mineral Spirits & Drier	61.5	
			100.0%	
		Y-4600	069	

GLD059935

GLIDDEN 4SD-M PRINTED IN U.S.A. PRINT

FORMULA RECORD

FORMULA NO. Y-4600-R (Pebble

GOODS Spred Lustre - Super White

LABORATORY NO.

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

COST CLASS BASE DATE 2/26/63

FOR USE ON

STRAINER GRIND 6

CUSTOMER Lead Free

MILL Pebble WT. OR BE 10.7

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-255				(8.72)	300.0	
W-154	Standard Formula			(5.53)	125.0	
H-199	Not to be taken			(.88)	20.0	
M-333				(.4)	5.2	
CH-185	from file.			(.34)	3.0	
W-218	Premix			(.27)	4.0	
S-91				.30	(2.0)	
V-891	(20 gals. in grind)			62.0	(471.0)	
S-240	(13 gals. in grind)			20.4	(132.0)	
VM-534	DISCONTINUED			.37	(3.00)	
VM-826				.75	(5.55)	
CH-359				.14	(1.08)	
	DEL Y-4600-S					
M-443						4-1/2 oz.
369-WA-16				Trace		
YIELD				100.10	1071.83	

TS AGITATOR REQUIRED

VISC. F.B. 72-74 KU TEMP. 77°F

VISC. RED. TEMP

VISCOSIMETER Stormer

COLOR White SHEEN 60-65°

NON VOL. FLASH PT. 100°F

MATCH FOR Y-4600

REDUCER S-240

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN Overnight

REMARKS Reissued to replace S-72 & use 369 base.

PVC 37.0%

NV by Vol. 41.5%

NV by Wt. 64.5%

Mill Base 49.4%

FORMULATOR J. E. Southrick

GLD059936

COST	DATE	ANALYSIS		CUSTOMERS X-4600-R
		PIGMENT 41 %		Spred Lustre - Super White
		VEHICLE 59 %		
		100 %		
		PIGMENT		9/26/6[illegible]
		Titanium Dioxide	68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate	28.9	
		Magnesium Silicate	3.0	No change in analysis
			100.0%	
				Y Enamel List 3-5-63
				#1-2-4-5-8-11-12-14-15-16-17
		Fluting material less than 5%		
				Schulte (for S.D.) per TMS 3-19-63
		VEHICLE		
		Soya Alkyd Resin	38.5%	Engstrom 6-7-63 (3)
		Mineral Spirits & Drier	61.5	
			100.0%	Italy 6-11-63
				Germany Sik Jap West Indies
				Guatemala Costa Rica Chile
				Colombia / Ecuador 4-25-63
		X-4600	069	

GLD059937

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FORMULA RECORD

FORMULA NO. Y-4600-S (Cowles

GOODS Spred Lustre - Super White

LABORATORY NO. BASE

CONSISTENCY

COST CLASS DATE 7/2/63

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

STRAINER GRIND 6

CUSTOMER Less than 1% Lead

MILL Cowles WT. OR BE 10.7

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Add in order listed:						
V-891				36.00	(273.6)	
W-218				(0.27)	4.0	
W-199				(0.88)	20.0	
W-255				(8.72)	300.0	
W-154				(5.53)	125.0	
Disperse to a 6 grind and add:						
CH-185				(0.68)	6.0	
M-333				(0.40)	5.2	
S-91				0.30	(2.0)	
Mix 5 min.						
V-891				26.0	(197.6)	
S-240				20.4	(132.0)	
VM-534				0.37	(3.00)	
VM-816				0.75	(5.55)	
[illegible]-359				0.14	(1.08)	
[illegible]443						4-1/2 Loz.
[illegible]9-WA-16				Trace		
YIELD				100.44	1074.83	

Standard Formula, Not to be taken from File

IS AGITATOR REQUIRED

VISC. F. B. 72-74 K TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR White SHEEN 60-65°

NON VOL. FLASH PT. 100°F

MATCH FOR Y-4600

REDUCER S-240

XMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hours

A. D. TO RECOAT IN Overnight

REMARKS: CH-185 increased for better flow control

Mill Base 50.0%

NV by Vol. 41.5%

PVC 37.0%

NV by Wt. 63.9%

FORMULATOR E. Southwick

GLD059938

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-S
		PIGMENT 41 %	Spred Lustre - Super White
		VEHICLE 59 %	
		100 %	7/2/63
		PIGMENT	Warning No. II-62 NPCA
		Titanium Dioxide 68.1%	
		Calcium Carbonate 28.9	No change in analysis
		Magnesium Silicate 3.0	
		100.0%	
			Y Enamel List 7-16-63
			#1-2-4-5-8-11-12-14-15-16-17
		Tinting material less than 5%	
			Sch. Japan 2-16-64
		VEHICLE	
		Soya Alkyd Resin 38.5%	
		Mineral Spirits & Driers 61.5	
		100.0%	
		Y-4600 069	

GLD059939

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FORMULA-RECORD

FORMULA NO. Y-4600-S (Pebble

GOODS: Spred Lustre - Super White — LABORATORY NO. BASS

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 PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-255				(8.72)	300.0	
W-154				(5.53)	125.0	
W-199				(0.88)	20.0	
M-333				(0.40)	5.2	
CH-185				(0.68)	6.0	
W-218 Premix				(0.27)	4.0	
S-91				0.30	(2.0)	
V-891 (20 gals. in grind)				62.0	(471.0)	
S-240 (15 gals. in grind)				20.4	(132.0)	
VM-534	Standard Formula Not to be taken from file			0.37	(3.00)	
VM-816				0.75	(5.55)	
CH-359				0.14	(1.06)	
M-443						4-1/2 oz.
369-WA-16				Trace		
	DISCONTINUED					
YIELD	SEE Y-4600-7			100.44	1074.83	

IS AGITATOR REQUIRED

VISC. F. B 72-74 KU TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR White SHEEN 60-65°

NON VOL. FLASH PT 100°F

MATCH FOR Y-4600

REDUCER S-240

AMT. FOR BRUSHING T.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hours

R. D. TO RECOAT IN Overnight

REMARKS CH-185 increased fo better flow control.

PVC 37.0%

NV by Vol. 41.5%

NV by Wt. 64.6%

Mill Base 49.4%

FORMULATOR J. E. Southwick

GLD059940

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-S
		PIGMENT 41 %		Spred Lustre - Super White
		VEHICLE 59 %		
		100 %		7/2/63
		PIGMENT		Warning No. 11-62 NPVLA
		Titanium Dioxide	68.1%	
		Calcium Carbonate	28.9	No change in analysis
		Magnesium Silicate	3.0	
			100.0%	
				Y Enamel List 7-16-63
				#1-2-4-5-8-11-12-14-15-16-17
		Tinting material less than 5%		Ceylon (British) 7-19-63
				Panama 10-4-63
		VEHICLE		Peru 11-4-63 (2)
		Soya Alkyd Resin	38.5%	
		Mineral Spirits & Driers	61.5	Ecuador 4-27-64 (3)
			100.0%	Sri Lanka 3-12-64
				West Indies 3-3-64
				Guatemala 3-9-64
				Jamaica 3-26-64 (2)
				Manila 3-31-64
		Y-4600 069		Colombia 4-24-64 (2)
				Chile 4-22-64

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FORMULA RECORD

FORMULA NO. Y-4600-T (Sand -

GOODS Spred Lustre - Super White

LABORATORY NO. M111

CONSISTENCY

COST CLASS DATE 5/26/6

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

STRAINER GRIND 6

CUSTOMER Less than 1% Lead

MI Sand-M111 WT. OR BR.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Premix:						
W-255 (Viscosity of premix				(8.72)	300.0	
W-154 (should be approxi-				(5.54)	125.0	
W-199 (mately 75 KU				(0.89)	20.0	
W-218) Premix				(0.27)	4.0	
S-91)				0.30	(2.0)	
CH-165				(0.68)	6.0	
369-WA-16 (Weigh carefully)				(0.10)	1.40	
Y-891				15.00	(114.0)	
S-240				15.00	(97.8)	
Disperse to a 6 Grind, then add:						
Y-891				47.00	(357.0)	
S-240				5.40	(35.2)	
M-333				(0.37)	5.2	
VM-534	Standard Formula			0.37	(3.00)	
VM-816	Not to be taken			0.75	(5.40)	
CH-359	from File			0.14	(1.10)	
W-443						4-1/2 oz.
YIELD				100.53	1077.10	

IS AGITATOR REQUIRED

VISC. F. B. 72-74 KU

VISC. RED. TE

VISCOSIMETER Stormer

COLOR White SHE

NON VOL. 64.7% FLA

MATCH FOR

REDUCER S-240

ADJ. FOR BRUSHING Full Body

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hours

BAKE TO RECOAT IN Overnight

REMARKS:

NV by Vol. 42.0%

PVC 37.4%

M111 Base 46.6%

FORMULATOR J. E. Southwick

GLD059946

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-T
		PIGMENT 41 %		Spred Lustre - Super White
		VEHICLE 59 %		
		100 %		5/26/64
		PIGMENT		
		Titanium Dioxide	68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate	28.9	
		Magnesium Silicate	3.0	No change in analysis
			100.0%	
				1 Enamel List 6-8-64 O
				#1-2-5-8-12-14-16-17
		Tinting material less than 5%		
		VEHICLE		
		Soya Alkyd Resin	38.5%	
		Mineral Spirits & Driers	61.5	
			100.0%	
		Y-4600	069	

GLD059947

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FORMULA RECORD

FORMULA NO. Y-4600-T (Sand-
GOODS Spred Lustre - Super White
LABORATORY NO. Mil
CONSISTENCY
COST CLASS BASIS DATE 6/17/(
FOR USE ON Mfg. Plants #1-2-5-8-12-14-16-17
STRAINER GRI
CUSTOMER Less than 1% Lead
MILL Sand Mill WT.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Premix:						
W-255(Viscosity of premix				(8.72)	300.00	
W-154(Should be approxi-				(5.54)	125.0	
W-199(mately 75 KU				(0.89)	20.0	
W-218				(0.27)	4.0	
CH-185				(0.68)	6.0	
369-WA-36(Weigh carefully				(0.10)	1.40	
V-891				15.00	(114.0)	
S-240				15.00	(97.8)	
Disperse to a 6 Grind, then add:						
V-891				47.00	(357.0)	
S-240				5.40	(35.2)	
M-333				(0.37)	5.2	
VM-534				0.37	(3.00)	
VM-816				0.75	(5.40)	
CH-359				0.14	(1.10)	
S-91				0.30	(2.00)	
M-443						4-1/2 Loz.
YIELD				100.53	1077.10	

IS AGITATOR REQUIRED

VISC F. S. 72-74 KU
VISC RED. TEMI
VISCOSIMETER Storme
COLOR White SHEE
NON VOL. 64.7% FLAS
MATCH FOR

REDUCER S-240
AMT. FOR BRUSHING Full Body
SPRAYING TUMBLING
DIPPING DRIP TIME
OTHER TEMP.

AIR DRIES IN 4-5 hours.
A. D. TO RECOAT IN Overnight
REMARKS:
NV by Vol. 42.0%
PVC 37.4%
Mill Base 46.6%

FORMULATOR J. E. Southwick

GLD059948

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-I
		PIGMENT 41 %	Spred Lustre - Super White
		VEHICLE 59 %	
		100 %	
			6/17/64
		PIGMENT	
		Titanium Dioxide 68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate 28.9	
		Magnesium Silicate 3.0	No change in analysis
		100.0%	
			Y Enamel List 6-27-64
			#1-2-5-8-12-14-16-17
		Tinting material less than 5%	
		VEHICLE	
		Sove Alkyd Resin 38.5%	
		Mineral Spirits & Driers 61.5	
		100.0%	
		Y-4600 069	

GLD059949

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FORMULA RECORD

FORMULA NO. Y-4600-T(Cowle

GOODS Spred Lustre - Super White

LABORATORY NO.

CONSISTENCY

COST CLASS D.S. DATE 5/26/6

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

STRAINER GRIND 6

CUSTOMER Less than 1% Lead

MILL Cowles WT. OR BE 10.7

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Add in order listed:						
V-891				36.00	(273.6)	
V-218				0.27	4.0	
W-199				0.89	20.0	
W-255				8.72	300.0	
W-154				5.54	125.0	
360-WA-16(Weigh carefully)				0.10	1.40	
Disperse to a 6 grind, then add:						
CH-185				0.68	6.0	
M-333				0.37	5.2	
S-92				0.30	(2.0)	
Mix 5-10 minutes, then let-down:						
V-891				26.00	(197.4)	
S-240				20.40	(133.0)	
WM-514				0.37	(3.00)	
WM-816	Standard formula can			0.75	(5.40)	
OH-359	Not to be drawn from			0.14	(1.10)	
M-443						4-1/2 Oz.
YIELD				100.53	1077.10	

VISC. F. & C. 72-74 KU TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR White SHEEN 60-65

NON VOL. 64.7% FLASH PT 100°F

MATCH FOR

REDUCER S-240

ABT. FOR BRUSHING Full Body

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hours.

A. D. TO RECOAT IN Overnight

REMARKS: Changed to new shading procedure.

NV by Vol. 42.0%

PVC 37.4%

Mill Base 51.2%

FORMULATOR J. E. Southwick

GLD059950

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-T
		PIGMENT 41 %	Spred Lustre - Super White
		VEHICLE 59 %	
		100 %	5/26/61
		PIGMENT	
		Titanium Dioxide 68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate 28.9	
		Magnesium Silicate 3.0	No change in analysis
		100.0%	
			J Emmel Lit 6-10-64
		Tinting material less than 5%	#1-2-4-5-8-11-12-14-15-16-17
		VEHICLE	#6 10-3-7-640
		Soya Alkyd Resin 38.5%	
		Mineral Spirits & Driers 61.5	
		100.0%	
		Y-4600 069	

GLD059951

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FORMULA RECORD

FORMULA NO. Y-4600-T Page

GOODS Spred Lustre - Super White

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 1% lead

MILL Pebble WT. OR BE 10.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-255				(8.72)	300.0	
W-154				(5.54)	125.0	
W-199	NO CHANGE			(0.89)	20.0	
W-218) Premix	FOOD USE			(0.27)	4.0	
S-91)				0.30	(2.0)	
CH-185				(0.68)	6.0	
369-NA-16	(Weigh Carefully)			(0.10)	1.40	
M-333	(Add at first let-down)			(0.37)	5.2	
V-891	(20 gals. in grind)			62.00	(471.0)	
S-240	(13 gals. in grind)			20.40	(133.0)	
VM-534				0.37	(3.00)	
VM-816				0.75	(5.40)	
CH-359	Standard formula			0.14	(1.10)	
M-449	Not to be taken from file					4-1/2 Lbs
YIELD				100.53	1077.10	

IS AGITATOR REQUIRED

VISC. F. B. 72-74 KU TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR White SHEEN 60-65

NON VOL. 64.7% FLASH PT. 100°F

MATCH FOR

REDUCER S-240

AMT. FOR BRUSHING Full Body

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hours

A. D. TO RECOAT Overnight

REMARKS: Changed to new shading procedure.

NV by Vol. 42.0%

PVC 37.4%

Mill Base 49.6%

FORMULATOR J. E. Southwick

GLD059952

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-T
		PIGMENT 41 %		Spred Lustre - Super White
		VEHICLE 59 %		
		100 %		5/26/64
		PIGMENT		
		Titanium Dioxide	68.1%	Warning No. 11-62 NPVLA
		Calcium Carbonate	28.9	
		Magnesium Silicate	3.0	No change in analysis
			100.0%	
				Y Enamel List 6-10-64
				#1-2-4-5-8-11-12-14-15-16-17
		Tinting material less than 5%		
				Puerto Rico 8-28-64
		VEHICLE		Peck (at Meyer) 10-5-64
		Soya Alkyd Resin	38.5%	
		Mineral Spirits & Driers	61.5	#6 10-27-64
			100.0%	
				#20 (Engelhorn) 12-29-64
		Sweden 7-8-65		
				W Indies 1-5-66
				Panama 1-12-65
				Guatemala 2-8-65
		Y-4600	069	

GLD059953

C&R FORMULA
Glidden Form 1109-1 Printed in U.S.A. 9/55

Product: Spred Lustre Alkyd Semi-Gloss Enamel - Super White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT
V-863-A	15.00	(117.0)	---
V-895	(0.82)	10.0	0.89
R-255	(8.64)	300.0	26.82
V-154	(8.48)	190.0	16.98
V-863-A	19.00	(148.2)	---
A-333	(0.36)	5.0	0.44
369-WA-16	(0.10)	1.40	0.12
V-863-A	15.70	(122.5)	34.65
V-895	20.00	(145.0)	12.96
S-340	11.10	(72.2)	6.46
VM-524	0.20	(1.6)	0.14
VM-525	0.50	(4.6)	0.41
CM-359	0.15	(1.2)	0.11
Yield	100.00	1118.7	100.0

MANUFACTURING INSTRUCTIONS

Use Disperse 10 Pint
Premix
Set Yellow W
Add as necessary to maintain dispersion
Disperse to a 6 on Hegman
Weigh carefully-Mix in 10 minutes

Standard Formula, Not to be taken from file.

MANUFACTURING TEMP. MUST NOT EXCEED 140° F

Formula Number	V-4200-G
Laboratory Number	
R.M. Code	Date 6/17/65
Mill Gonieb	Grind 6
% Lead Less than 1	
Wt/Gal. 11.1#	Method 5-A-1
Flash °F. 160	Method Theor.
N.V. Wt. 53.45	Method Calc.
N.V. Vol. 47.4	Method Calc.
Visc. F-B 77-82	Method 4-C-1
Visc. Red.	Method
Reducer S-340	Ratio
P.V.C. 35-37	pH
Color White	Match
Gloss 55-65	Method 9-A-1
Strainer	
Container	
Label Warning #11-62 WHITE	
Application Brush	
Cure Air-dry 4-6 hours. Recoat Overnight	
Remarks Changed to the V-863-A & V-895	
Formulator J. Southwick/Reams	
Approved by S. Powell	

GLD059954

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 61.2%
Specifications						Calcium Carbonate 38.8%
Royalty Yes [ ] No [X] Silicone Yes [ ] No [X]						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,
7-28-66 #1						Alkyd Resin 43.8%
#30 (Emptrone + (Beck) 7-28-66 #1						Mineral Spirits & Driers 56.2%
Mexico 8-11-66 (5)						100.0%
Columbia, C. Rica, Ecuador 10-17-66 (5)						Warning #11-62 NPVLA
W. Germany, Guatemala, Italy 10-17-66 (5)						
Japan (Ark), Panama, Peru, Manila, W. Indies, Sweden 10-18-66 (6)						Y-4600 666

Glidden Form 1109-1 (back) Printed in U.S.A. 9/65

GLD059955

Glidden Form 1199-1 Printed in U.S.A. 2/67

C & R FORMULA

Product: Spred Lustre Alkyd Semi-Gloss Enamel - Super White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V-2390	15.00	117.0		
R-155	0.90	11.0	0.97	Pre-Disperse
				10 minutes.
W-755	8.64	300.0	26.62	
N-113	8.99	203.0	18.01	
V-2390	19.00	148.2	--	Add as necessary to
				maintain dispersion
				Disperse to a 6
R-396	0.36	5.0	0.44	(grind.
309-WA-16	0.10	1.40	0.12	Weigh carefully
				Mix in 10 min.
V-2390	12.10	94.4	31.90	
R-2375	24.00	174.0	15.44	
S-340	10.10	65.7	5.84	
R-304	0.20	1.6	0.14	
R-344	0.50	4.6	0.41	
R-262	0.16	1.2	0.11	
				Manufacturing Temp.
				MUST NOT EXCEED
				110°F.
Yield	100.05	1127.1	100.00	

Standard Formula
Not
from File

Formula Number: V-4600-W R

Laboratory Number:

R.M. Cost: Date: 3/1/67

Mill: Cowl Grind: 6

NPVLA: %Load: -1

		METHOD
Label Naming	11-62	
Wt./Gal.	11.2#	5-A-1
Flash Pt.	°F.00	Theo.
N.V. Wt.	68.3%	Calc.
N.V. Vol.	47.0%	Calc.
Visc. F.B.	80-85 KU	4-C-1
Visc. Red.		
Reducer: S-340	Ratio:	
P.V.C.	37.4% pH	
Color: White	Match:	
Gloss: 50-60	Method:	9-A-1
Strainer:		
Container:		
Application: Brush; Full Body		
Air Dry: 4-6 hrs.		
Recoat: Recoat: Overnight		
Remarks: Changed to increase viscosity.		
Formulator: Bednarik/Southwick		
Approved by: S. M. B.		

GLD059956

Glidden [illegible] Form 1109-1 (back) Printed in U.S.A. 2/65 C.&R. FORMULA

CLASS [illegible]					
CODE [illegible]					

DESCRIPTORS (20 spaces—limit)

Trade [illegible] Name Customer

Substr[illegible] and Treatment

End U[illegible] Use

Spec[illegible] Specifications

Royal[illegible] Yes [ ] No [X] Silicone Yes [ ] No [X]

Resin[illegible] V-2390, F-2375

Color White Gloss Semi-Gloss

For U[illegible] Use On 55-65

Resis[illegible]

Manuf[illegible] Manufactured at Plants #1-2-4-5-8-11-12-14-15-16-17

3-15-67

Manuf[illegible] Manufacturing Instructions or Remarks Italy 2-25-68

Date 3/1/67 Formula No. Y-4600-W

Product Spred Lustre Alkyd S. G. En. - Super White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment 43.8 %

Vehicle 56.2 %

100.0%

Pigment

Titanium Dioxide	61.2%
Calcium Carbonate	38.8%
	100.0%

R. Vanon 6-15-67 (G)

Iceland 2-8-67 (G)

#30 (Engstrom) 3-6-68

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic, Alkyd Resin	43.8%
Mineral Spirits & Driers	56.2%
	100.0%

NO CHANGE IN ANALYSIS

Y-4600 666

GLD059957

Glidden Form 1109-1 Printed in U.S.A. 2/67

C & R FORMULA

Product: Spred Lustre Alkyd Semi-Gloss Enamel - Super White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Cowles Procedure for 100 Gallon Batch : SEE BACK				
V-2390	15.00	(117.0)	10.47	
E-155	(0.90)	11.0	0.98	Pre-disperse at
				slow speed 10-15
W-755	(8.64)	300.0	26.85	minutes.
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	(0.36)	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	Let-Down
F-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	
Yield	100.05	1117.40	100.00	

Formula Number: Y-4600-A

Laboratory Number:

R.M. Cost: Date: 10/30/6

Mill: Cowles Grind: 6

NPVLA: Ml.cad -1

Label Warning: 11-62

Wt./Gal.: 11.1#

Flash Pt.: 100

N.V.Wt.: 68.2%

N.V.Vol.: 46.1%

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

Visc. Red.:

Reducer: S-385 Ra

P.V.C.: 38.1% 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: Changed to use odorless F-2233 & S-385

Formula: Bednarik/Southwick

Approved by: S.T.B.

Standard Formula Not to be taken from File

GLD059958

Glidden Form 1109-1 (back) Printed in U.S.A. 2/67 C.S.R. FORMULA

CLASS CODES	323.331 419.9909 722.902

DESCRIPTORS (20 spaces-limit)

Trade Name: Spred Lustre Customer: Trade Sales

Substrate and Treatment:

End Use:

Specifications:

Royalty: Yes [ ] No [X] Silicone: Yes [ ] No [X]

Resins: V-2390, P-2233

Color: Blued White Gloss: Semi-Gloss 50-60

For Use On:

Resistance:

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

Manufacturing Instructions or Remarks: Recommended Batch Sizes for:
100 H.P. Cowles - 1000 Gallons
60 H.P. Cowles - 600 Gallons
50 H.P. Cowles - 500 Gallons
40 H.P. Cowles - 400 Gallons

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

Product: Spred Lustre Alkyd Semi-Gloss Enamel-Super White

Label Warning: #1-62 MPVMA

ANALYSIS

Pigment	45.0 %
Vehicle	55.0 %
	100.0%

Pigment

Titanium Dioxide	59.6%
Calcium Carbonate	36.4%
Magnesium Silicate	4.0%
	100.0%

4-27-68

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic

Alkyd Resin	42.3%
Mineral Spirits & Driers	57.7%
	100.0%

V-4600 7601

GLD059959

Glidden Form 1109-1 Printed in U.S.A. 2/67

C & R FORMULA

Product: Spred Lustre Alkyd Semi-Gloss Enamel - Super White

Customer:

Formula Number: Y-4600-A BASE

Laboratory Number: [redacted]

R.M. Cost: Date: 10/30/67

Mill: Cowles Grind: 6

NPVLA: % Lead: -1

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Cowles Procedure for 100 Gallon Batch : SEE BACK				
V-2390	15.00	(117.0)	10.47	
E-155	(0.90)	11.0	0.98	Pre-disperse at
				slow speed 10-15
W-755	(8.64)	300.0	26.85	minutes.
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	(0.36)	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	Let-Down
F-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	0.18	(1.20)	0.11	
Yield	100.05	1117.40	100.00	

Standard Formula, Not to be taken from File

		METHOD
Label Naming	11-62	
Wt./Gal.	11.1#	5-A-1
Flash Pt.	100	Theo.
N.V.Wt.	68.2%	Calc.
N.V.Vol.	46.1%	Calc.
Visc. F.B.	80-85 KU	4-C-1
Visc. Red.		
Replacer	S-385	Ratio
P.V.C.	38.1%	pH
Color	White	Match None
Gloss	50-60	Method 9-A-1
Strainer		
Container		
Application	Brush Full Body	
AD/Bake	4-6 hrs.	
Repeat Time	Overnight	
Remarks	Changed to use odorless F-2233 & S-385.	
Formulator	Bednarik/Southwick	
Approved by	S.T.B.	

GLD059960

Glidden Form 1409-3 (back) Printed in U.S.A. 2/67 C & R FORMULA

CLASS 323.311 419.9909 722.902

CODES

DESCRIPTORS (20 spaces-limit)

Trade Name Spred Lustre Customer Trade Sales

Substrate and Treatment

End Use

Specifications

Royalty: Yes [ ] No [X] Silicone: Yes [ ] No [X]

Resins V-2390, F-2233

Color Blued White Gloss Semi-Gloss 50-60

Per Use On

Resistance of

Manufactured at Plants

Manufacturing Instructions or Remarks

Recommended Batch Sizes for:

100 H.P. Cowles - 1000 Gallons
60 H.P. Cowles - 600 Gallons
50 H.P. Cowles - 500 Gallons
40 H.P. Cowles - 400 Gallons

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

Product Spred Lustre Alkyd Semi-Gloss Enamel-Diner White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment	45.0 %
Vehicle	55.0 %
	100.0%

Pigment

Titanium Dioxide	59.6%
Calcium Carbonate	36.4%
Magnesium Silicate	4.0%
	100.0%

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	42.3%
Mineral Spirits & Driers	57.7%
	100.0%

V-4600 7601

GLD059961

Glidden Form 1109-I Printed in U.S.A. 2/57 — C & R FORMULA

Product: Spred Lustre Alkyd Semi-Gloss Enamel — Super White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Conlea 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
M-755	(8.60)	300.0	26.85	minutes.
M-113	(8.10)	163.0	16.38	
M-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-MA-16	(0.10)	1.40	0.13	(Weigh carefully)
S-385	3.10	(19.6)	1.75	Mix 10-15 minutes
Air transfer-maximum temp. 125°F.				
V-2390	8.10	(63.2)	5.66	Let-Down
V-2229	30.00	(210.0)	18.79	
S-385	5.00	(31.6)	2.83	Standard Grind
E-304	0.20	(1.60)	0.14	Not to be taken
E-344	0.50	(4.60)	0.41	from File
E-262	0.16	(1.20)	0.11	
Yield	100.00	1117.40	100.0	

Formula Number: V-4600-A-1

Laboratory Number:

R.M. Cost: Date: 3/13/6

Mill: Conlea Grind: 6

HPVLA: Load: -1

Label Warning: 11-62

		METHOD
Wt./Gal.	11.1#	5-A-1
Flash Pt. °F	100°	Theo.
N.V.Wt.	68.2%	Calc.
N.V.Vol.	46.1%	Calc.
Visc. F.A.	80-85 KU	4-C-1

Visc. Red.:

Reducer: S-385 Ratio:

P.V.C. 38.1% 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

Formulator: Southwick

Approved by: MI SWK

GLD059962

Glidden Form 1109-1 (back) Printed in U.S.A. 2/67 — C & R FORMULA

CLASS	323.311	419.9909	722.902		
CODES					

DESCRIPTORS (23 spaces-limit)

Trade Name: Spred Lustre — Customer: Trade Sales

Substrate and Treatment:

End Use:

Specifications:

Royalty: Yes [ ] No [X] — Silicone: Yes [ ] No [X]

Resins: V-2390, F-2233

Color: Blued White — Gloss: Semi-Gloss 50-60

For Use On:

Resistance:

Manufactured at Plan #: 1-2-5-8-11-12-14-15-16-17

Manufacturing Instructions or Remarks: Recommended Batch Sizes for:

100 H.P. Cowles - 1000 Gallons
60 H.P. Cowles - 600 Gallons
50 H.P. Cowles - 500 Gallons
40 H.P. Cowles - 400 Gallons

Date: 10/30/67 — Formula No: Y-4600-A

Product: Spred Lustre Alkyd Semi-Gloss Enamel-Super White

Label Warning: #11-62 NPVLA

ANALYSIS

Pigment	45.0 %
Vehicle	55.0 %
	100.0%

Pigment

Titanium Dioxide	59.6%
Calcium Carbonate	36.4%
Magnesium Silicate	4.0%
	100.0%

P-4.68

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic

Alkyd Resin	42.3%
Mineral Spirits & Driers	57.7%
	100.0%

Y-4600 7661

GLD059963

Glidden Form 1109-1 Printed in U.S.A. 2/67 C & R FORMULA 4238

Product: Spred Lustre Alkyd Semi-Gloss Enamel - Super White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
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
W-755	(8.64)	300.0	26.85	minutes.
*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
* or N-161				grind-maximum
V-2390	10.00	(78.0)	6.98	temp. 130°F.
E-396	(0.36)	5.0	0.45	
369-WA-16	(0.10)	1.4	0.13	(Weigh carefully)
S-385	3.10	(19.6)	1.75	Mix 10-15 min.
At transfer-maximum temp. 125°F.				
V-2390	8.10	(63.2)	5.66	Let-Down
**V-2229	30.00	(210.0)	18.79	
S-385	5.00	(31.6)	2.83	
E-304	0.25	(2.0)	0.14	
E-344	0.50	(4.6)	0.41	
E-262	0.16	(1.2)	0.11	
E-380	0.40	(3.1)		
** or F-2233				
Yield	100.5	1120.9	100.0	

Standard Formula Not to be taken from File

Formula Number: Y-4600-B

Laboratory Number:

R.M. Cost: Date: 6/3/68

Mill: Cowles Grind: 6

NPVLA: %Lead: -1

			METHOD
Label Warning	11-62		
Wt./Gal.	11.1#		5-A-1
Flash Pt. °F.	100°		Theo.
N.V. Wt.	68.2%		Calc.
N.V. Vol.	46.1%		Calc.
Visc. F.B.	80-85 KU		4-C-1
Visc. Red.			
Reducer	S-385	Ratio	
P.V.C.	38.1%	pH	
Color	White	Match	None
Gloss	45-55	Method	9-A-1
Strainer			
Container			
Application	Brush Full Body		
AD/Bake	4-6 hrs.		
Recoat Time	Overnight		
Remarks	Y-5600-F (RELABEL)		
Formulator	Southwick		
Approved by	WT STB		

GLD059964

Glidden Form 1109-1 (back) Printed in U.S.A. 2/67 C & R FORMULA

CLASS	323.311	419.9909	722.902		
CODES					

DESCRIPTORS (20 spaces—limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [XX] Silicone Yes [ ] No [XX]

Resins V-2390, F-2233

Color Blued White Gloss Semi 45-55

For Use On

Resistance

Manufactured at Plants #1-2-5-8-11-12-14-15-16-17 6-10-68 #1

#30 (Engstrom) 6-11-68

#30 (Mayers) 6-12-68

Manufacturing Instructions or Remarks

Recommended Batch Sizes For:

100 H.P. Cowles	1000 Gallons
60 H.P. Cowles	600 Gallons
50 H.P. Cowles	500 Gallons
40 H.P. Cowles	400 Gallons

Date 6/3/68 Formula No. V-4600

Product Spred Lustre Alkyd Sem Gloss En. - Super White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment	45.0%
Vehicle	55.0%
	100.0%

Pigment

Titanium Dioxide	59.6%
Calcium Carbonate	36.4%
Magnesium Silicate	4.0%
	100.0%

Chico Panama Mexico Guatemala 6-21-68

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	42.3%
Mineral Spirits & Driers	57.7%
	100.0%

V-4600 7691

GLD059965

Glidden Form 1109-1 Printed in U.S.A. 2/67

C & R FORMULA 4/23/6

Product: Speed-Flo Fire Alkyd Semi-Gloss Enamel

Customer: Stock White

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
A-1604 Procedure	(for 100)	Gallon	Batch	See Back
V-2230	15.00	(117.0)	10.47	
X-855	(0.90)	13.0	0.98	Pre-disperse at
				slow speed 10-15
V-951	(8.6%)	300.0	26.85	minutes.
V-116	(8.52)	188.0	16.74	
X-45	(0.68)	15.0	1.33	
V-2300	9.00	(70.2)	6.28	Disperse to a 5
[illegible] N-31	1			grind-maximum
V-2290	10.00	(78.0)	6.98	temp. 130° F.
V-306	(0.36)	5.0	0.45	
V-50-NK-16	(0.10)	1.4	0.13	(Keep circulating)
V-395	1.20	9.0	1.75	Mix 10-15 min.
Add Foam Reducer		Grind temp. 125°.		Let down
V-2290	6.10	(47.6)	5.66	
V-2229	30.00	(210.0)	18.79	
V-385	5.00	(39.0)	3.53	
V-304	0.25	(2.0)	0.14	
V-344	0.50	(3.9)	0.41	
V-262	0.16	(1.2)	0.12	
V-330	0.40	(3.1)		
V-61 N-33				
Yield	100.7	1122.9		

Formula Number: V-4600-X

Laboratory Number: (Alternate)

R.M. Cost: Date: 6/7/6[illegible]

Mill: [illegible] Grind: 0

NPVLA: Load:

Label Warning	11-62	METHOD
Wt./Gal.	11.1#	G-A-1
Flash Pt. °F.	100°	Cleo.
N.V.W.	60.2%	Calc.
N.V.Vol.	46.1%	Calc.
Visc. F.S.	80-85 KU	4-G-1
Visc. Red.		
Reducer	V-365 Ratio	
P.V.C.	38.2% pH	
Color	White Match	None
Gloss	45-55 Method	60°
Strainer		
Container		
Application	Brush Roll Spray	
Ag/Baks	5-0 hrs	
Recoat Time	Overnight	

Remarks: V-600 Batch Released to replace V-951 when V-951 is depleted.

Formulator: [illegible]

Approved by: [illegible]

GLD059966

Cliddeden Form 1109-1 (back) Printed in U.S.A. 2/67 C & R FORMULA

CLASSES	323.311	419.9909	722.902		
CODES					

DESCRIPTORS (20 spaces—limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [XX] Silicone Yes [ ] No [XX]

Resinous V-2390, F-2233

Color Blued White Gloss Semi 45-55

For Use On

Resistance

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

#1-5-17 Only 8-13-68

TMS

Manufacturing Instructions or Remarks

Recommended Batch Sizes For:

1100 H.P. Cowles	1000 Gallons
60 H.P. Cowles	600 Gallons
50 H.P. Cowles	500 Gallons
40 H.P. Cowles	400 Gallons

Date 6/3/68 Formula No. Y-4600-

Product Spred Lustre Alkyd Semi Gloss En. - Super White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment	45.0%
Vehicle	55.0%
	100.0%

Pigment

Titanium Dioxide	59.6%
Calcium Carbonate	36.4%
Magnesium Silicate	4.0%
	100.0%

Rico Guatemala

Panama Mexico 9-5-68

#30 (Myers) 1-3-69

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	42.3%
Mineral Spirits & Driers	57.7%
	100.0%

Y-4600 7691

GLD059967

Glidden Form 1109-1 Printed in U.S.A. 2/67

C & R FORMULA

Product: Spred Lustre Alkyd Semi-Gloss Enamel - Super White

Customer:

Formula Number: Y-4600-B-1

Laboratory Number:

R.M. Cost: Date: 5/8/68

Mill: Cowles Grind: 6

NPVLA: %Lead: -1

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
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
W-755	(8.64)	300.0	26.85	minutes.
*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
* or N-161				grind-maximum
				temperature 130°F
V-2390	10.00	(78.0)	6.98	
E-396	(0.36)	5.0	0.45	
369-WA-10	(0.10)	1.40	0.13	(Weigh carefully)
S-385	3.10	(19.5)	1.75	Mix 10-15 minutes
At transfer-maximum temp. 125°				
V-2390	8.10	(63.2)	5.66	Let-Down
V-2229	30.00	(210.0)	18.79	
S-385	5.00	(31.6)	2.83	
E-304	0.25	(2.00)	0.14	
E-344	0.50	(4.00)	0.42	
E-262	0.16	(1.20)	0.11	
E-380	0.40	(3.10)		
Yield	100.5	1120.9	100.0	

Standard Formula Not to be taken from File

Label Warning	11-62	METHOD
Wt./Gal.	11.1#	5-A-1
Flash Pt. °F	100°	Theo.
N.V. Wt.	68.2%	Calc.
N.V. Vol.	46.1%	Calc.
Visc. F.B.	80-85 KG	4-C-1
Visc. Red.		
Reducer	S-385	Ratio
P.V.C.	38.1%	pH
Color	White	Match None
Gloss	45-55	Method 9-A-1
Strainer		
Container		
Application	Brush Fluid Body	
AD/Bake	4-6 hrs	
Recoat Time	Overnight	
Remarks		
Formulator	Southwick	
Approved by	WT STB	

GLD059968

Glidden Form 1109-T (back) Printed in U.S.A. 2/67 — C & R FORMULA

CLASS	323.311	419.9909	722.902		
CODES					

DESCRIPTORS (20 spaces—limit)

Trade Name: Spred Lustre — Customer: Trade Sales

Substrate and Treatment:

End Use: No Change

Specifications:

Royalty: Yes [ ] No [X] — Silicone: Yes [ ] No [X]

Resins: V-2390, P-2233

Color: Blued White — Gloss: Semi-Gloss 45-55

For Use On:

Resistance: Pf Tint

Manufactured at Plants: #1-2-3-6-11-12-14-15-16-17

Recommended Date: 5-31-66

Manufacturing Instructions or Remarks:

Date: 5/8/66 — Formula No. V-4600-B

Product: Spred Lustre Alkyd Semi-Gloss Enamel-Super White

Label Warning: #11-62 NPVLA

ANALYSIS

Pigment	45.0 %
Vehicle	55.0 %
	100.0%

Pigment

Titanium Dioxide	59.6%
Calcium Carbonate	36.4%
Magnesium Silicate	4.0%
	100.0%

J. Major 6-16-66 mor

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	42.3%

GLD059969

GLIDDEN-DURKEE FORM 1100-Y PRINTED IN U.S.A. 11-68

C & R FORMULA 4238

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

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V-2390	24.0	187.2	17.67	Pre-disperse
* E-396	0.36	5.0	0.47	10-15 minutes,
* E-155	1.23	15.0	1.42	
* W-951	8.07	270.0	25.48	Disperse to 6-7
(*)*N-115	6.79	150.0	14.16	grind.
	DO NOT EXCEED		130°F	
V-2390	20.0	156.0	14.72	Add before
S-385	4.0	25.2	2.38	pumping.
* 369-WA-16	0.11	1.4	0.13	
F-2237	30.0	210.0	19.82	Letdown in tank.
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	
Yield	100.43	1059.6	100.0	

(*) N-161 may be used in place of N-115.

Standard Formula
Not to be taken from File

Formula Number	Y-4600-C		
Laboratory Number	(BASE)		
R.M. Cost	$1.71	Date	5/15/69
Mill	Cowles	Grind	6-7
SPVLA	Lead		-1
Label Warning	11-62	METHOD	
Wt./Gal.	10.55		5-A-1
Flash Pt. °F.	100		Theor.
N.V.Wt.	65.0%		Calc.
N.V.Vol.	44.3%		Calc.
Visc. F.S.	80-85 KU		4-C-1
Visc. Red.			
Reducer	S-385	Ratio	
P.V.C.	33.4%	pH	
Color	White	Match	None
Gloss	45-55	Method	9-A-1
Drier			
Application	Brush/Roll		
Dries	4-6 hours		
Recoat Time	Overnite		
Remark	Revised to Incorporate W-951.		
Formulator	Sutherland/JES		
Approved by	W.T. STB		

GLD059970

FORM 11-1 (BACK) PRINTED IN U. S. A. 11-61

C & R FORMULA

CLASSS	123.311	419.9901	722.902	
CODES	821.018			

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [XX] Silicone Yes [ ] No [XX]

Resins T.O.F.A. & Soya Alkyds

Color White Gloss 45-55

For Use On

Resistance

Y 1.4 List

Manufactured at Plant #1-2-5-8-14-15-16-17 6-2-69

F. Stenger

6-11-72 6-2-69

Manufacturing Instructions or Remarks

Recommended Batch Size:

100 H.P. - 100 Gals.

60 H.P. - 600 Gals.

Costa Rica, Panama, Mexico, Guatemala 6-24-69 (7-8)

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

Product Spred Lustre Semi-Gloss Enamel - Super White

Label Warning #11-62 NPULA

ANALYSIS

Pigment 39.6 %

Vehicle 60.4 %

100.0%

Pigment

Titanium Dioxide 64.3%

Calcium Carbonate 35.7%

100.0%

P 30 (Engstrom - Myers) 6-2-69

F. Meyer 6-16-69 [illegible]

Vehicle Linoleic, Linolenic, Oleic, Palmitic, Stearic Alkyd Resin 42.0%

Mineral Spirits & Driers 58.0%

100.0%

Y-4600 965

GLD059971

GLIDDEN-DURKEE FORM 1108-1 PRINTED IN U.S.A. 11-60 C & R FORMULA 4038

Product: Spred Lustre Semi-Gloss Enamel #4600

Customer: One Coat White

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-2390	25.	195.	18.52	Pre-Mix 10 min.
*M-396	0.36	5.	0.47	Do not exceed
*E-155	1.23	15.	1.42	130° F.
*W-951	8.67	290.	27.55	Disperse to 6-7
*H-161	5.44	120.	11.40	grind.
				Do not exceed 130 °F.
W-2390	20.	156.	14.82	Add before pumping
S-385	4.	25.2	2.39	
S-385	4.	25.2	2.39	Cowles tank wash
*-2233	30.	210.	19.95	Let down in tank.
*E-344	0.5	4.75	0.45	
*E-304	0.25	2.	0.19	
*B-380	0.4	3.1	0.29	
*E-262	0.2	1.5	0.14	
Yield	100.05	1052.75	99.98	

Standard Formula Not to be taken from file

Formula Number: Y-4600-D

Laboratory Number: EGL-69879 (R

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

Mill: Cowles Grind: 6-7

NPVLA: %Load —?

Label Warning: 11-62

Wt./Gal.: 10.5#

Flash Pt. °F.: 100

N.V.Wt.: 64.9%

N.V.Vol.: 44.8%

Visc.-F.B.: 80-82 KU

P.-C. Rcd.

Reducer: S-385 R

P.V.C.: 31.5% Pl

Color: White Match: EGL-70-1

Gloss: (60°) 50-60 Method: 9-A

Strainer:

Container:

Application: Brush/Roll

ADJ/KCK: 4-6 Hours

Recoat Time: Overnight

Remarks: Tint strength standardized for Master Palette.

Formulator: Sutherland/JES

Approved by: WMT/STB

GLD059972

FORM [illegible] (BACK) PRINTED IN U.S.A. [illegible]

C & R FORMULA

Date 8/8/69 Formula No. Y-4600-D

CLASSES	323.311	419.9901	722.902
CODESES	821.018		

Product Spred Lustre Semi-Gloss Enamel - #4600 One Coat White

Label Warning #11-62 NPVIA

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [X] Silicone Yes [ ] No [ ]

Resistance T.O.F.A. Alkyd, Soya Alkyd

Color White Gloss (60°) 50-60

For Use On

Resistance Y Pt List

Manufactured at Plants #1-2-5-8-11-12-14-15-16-17-30 8-8-69

#31 (Engstrom) 8-8-69

Manufacturing Instructions or Remarks

ANALYSIS

Pigment 39.0 %

Vehicle 61.0 %

100.0%

Pigment

Titanium Dioxide 7

Calcium Carbonate 2

10

Costa Rica Gnat

Mexico Panama 8-25-6

Vehicle Linoleic, Linolenic, Oleic, Palmitic, Stearic

Alkyd Resin 42.6

Mineral Spirits & Driers 57.4

100.0%

Y-4600 968

GLD059973

GLIDDEN-DURKEE FORM 1139-I PRINTED IN U.S.A. 11-68 — C & R FORMULA 4238

Product: Spred Lustre Semi-Gloss Enamel - One Coat /White

Customer:

Formula Number: Y-4600-E

Laboratory Number: (BASE)

R.M. Cost: 1.63 — Date: 12/5/6

Mill: Cowles — Grind: 6-7

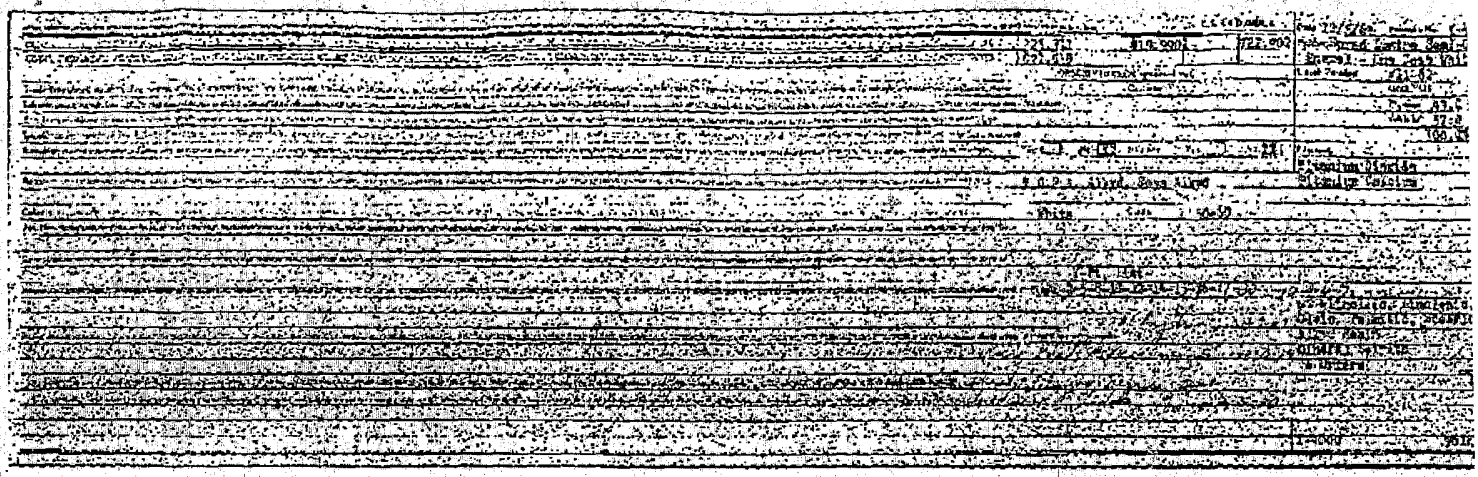
NPVL-A: Level -1

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Y-2390	30.0	234.0	21.4	
* C-911	0.23	2.0	0.18	
* E-396	0.20	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	8.56	Add before
S-385	4.0	25.2	2.3	transfer.
S-385	5.0	31.5	2.88	Cowles tank rinse
E-2233	30.0	210.0	19.2	Letdown 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	
Yield	100.	1093.65	100	

Standard formula. Not to be taken from file

Label Warning	11-62 — METHOD
Wt./Gal.	10.94 — 5-A-1
Flash Pt. °F.	100 — Theo.
N.V.-Vr.	66.7% — Calc.
N.V. Vol.	44.8% — Calc.
Visc. F.B.	80-85 KU — 4-C-1
Visc. Rel.	
Reducer: S-385	Ratio
P.V.C.	36.1% pH
Color: White	Match EC2-70-1
Gloss: 50-60	Method 9-A-1
Shrinkage	
Container	
Application: Brush/Roll	
Ad. Ext.: 4-6 hours	
Recoat Time: Overnite	
Remarks: Revised to lower cost using W-137.	
Formulated by: Sutherland/JES	
Approved by: WT/STB	

GLD059974



GLD059975

FORM 8124-1 (BACK) PRINTED IN U. S. A. 11-61 — C & R FORMULA

CLASS	323.311	419.9901	722.902
CODES	821.018		

DESCRIPTORS (20 spaces—limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

Royalty: Yes [ ] No. [XX] Silicone: Yes [ ] No. [XX]

Resins: T.O.F.A. Alkyd, Soya Alkyd

Color: White — Gloss: 50-60

For Use On

Resistance

Y-Pt. List

Manufactured at Plant #1-2-5-8-11-12-14-15-16-17-30 12-9-69

Manufacturing Instructions or Remarks

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

Product: Spred Lustre Semi-Gloss Enamel - One Coat White

Label Warning #11-62

ANALYSIS

Pigment	43.0 %
Vehicle	57.0 %
	100.0%

Pigment

Titanium Dioxide	36.2%
Titanium Calcium	63.8%
	100.0%

Vehicle: Linoleic, Linolenic, Oleic, Palmitic, Stearic

Alkyd Resin	41.6%
Mineral Spirits & Driers	58.4%
	100.0%

Y-4600 9612

GLD059976

SPRED LUSTRO SEMI-GLOSS ENAMEL

ONE COAT WHITE

WHITE

(-4600 F
(BASE)
05/19/70

ADD BY WEIGHT CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V2390	25.00	195.00	18.52	ADD TO COWLES TANK.
* E396	0.36	5.00	0.47	
* E155	1.23	15.00	1.42	PRE-DISPERSE 10 MINUTES.
* N115	5.76	130.00	12.33	(N161 MAY BE USED IN PLACE OF N115)
* W951	8.37	280.00	26.60	DISPERSE PIGMENT TO 6-7 GRIND.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	COWLES 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.

GLD059977

323.311	419.9901	722.900	Y-4600 F
821.018			REVISED TO REVERT TO PURE TITANIUM DIOXIDE/ CALCIUM CARBONATE PIGMENTATION.

C. Rica, Gust, Mayer
[illegible] 7-24-70

[illegible] 3-29-73

X X

T.O.F.A. ALKYD(V2390)
SOYA ALKYD(F2233)

X Solvent Kist
#1-2-5-8-11-12-14-15-16-17-30
#30 (Cryptonal) 5-28-70 (9)

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

CUSTOMER CONDITIONS: BRUSH/ROLL/SPRAY — 4-6 HOURS(A.D.) OVERNITE

6-7 80-85 KU 4-C-1 50-609-A-1 8-10

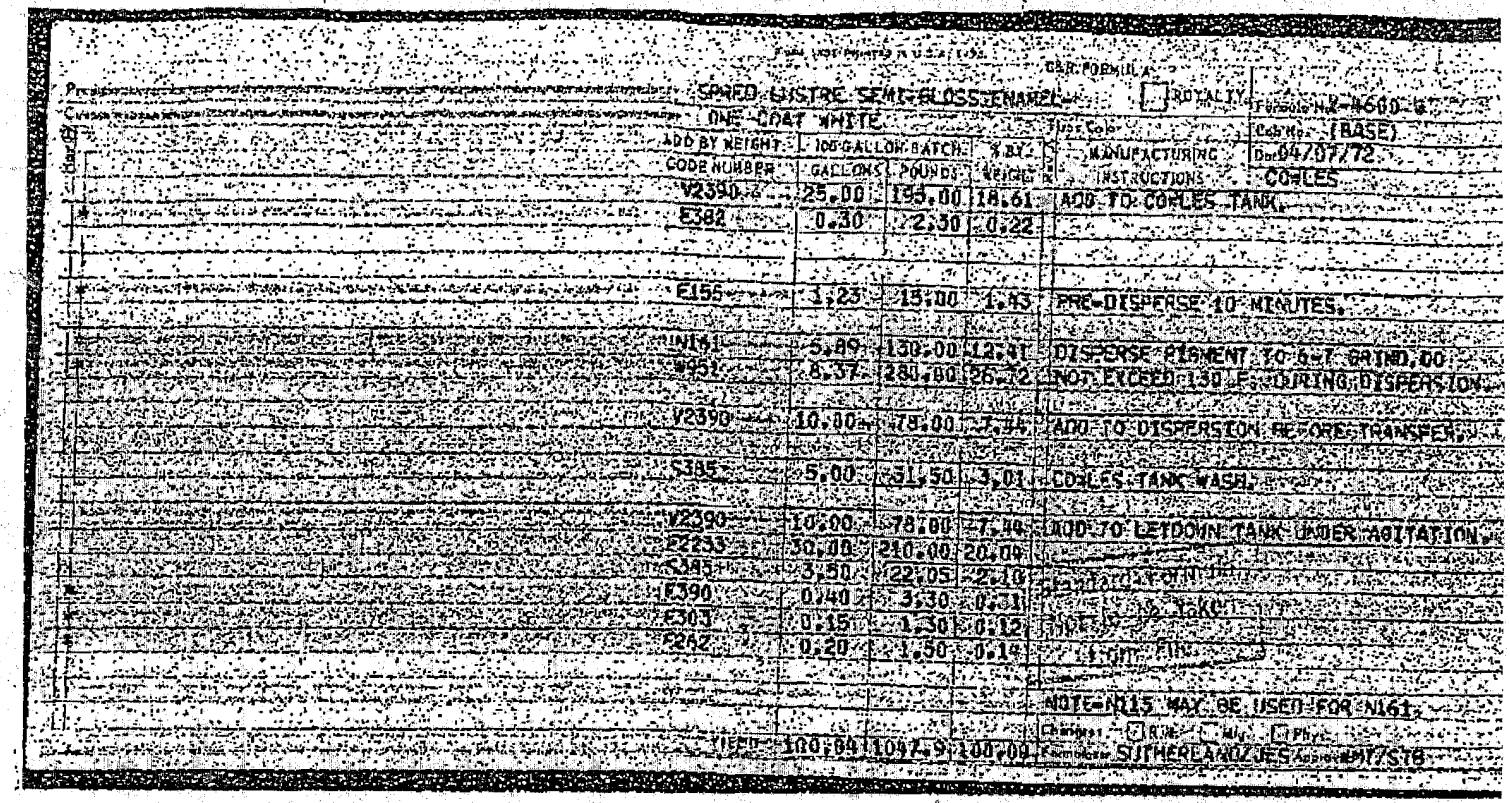
BRUSH 2-3 MIL CONTROL COWL

10.52 ECZ-70-1 11-62 NPVLA 100 <1

S-385 CHECK SAG BY LENETA BAR

6A-9

GLD059978



ADD BY WEIGHT CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V2390-2	25.00	194.00	18.61	ADD TO COALES 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, DO
W951	8.37	280.80	26.72	NOT EXCEED 130 F. DURING DISPERSION.
V2390	10.00	78.00	7.94	ADD TO DISPERSION BEFORE TRANSFER.
S385	5.00	51.50	4.91	COALES TANK WASH.
V2390	10.00	78.00	7.44	ADD TO LETDOWN TANK UNDER AGITATION.
P2233	30.00	210.00	20.04	
S395	3.50	22.05	2.10	
E390	0.40	3.30	0.31	
E303	0.15	1.30	0.12	
P262	0.20	1.50	0.14	
				NOTE-N115 MAY BE USED FOR N161.
YIELD	100.04	1047.9	100.00	

GLD059979

Form 1330 PRINTED IN U.S.A. 1/72

C&R FORMULA ☐ ROYALTY

Product SPRED LUSTRE SEMI-GLOSS ENAMEL

Formula No. X-4600-6

Customer ONE COAT WHITE

Tint or Color

Lab No. (BASE)

Date 04/07/72

Hold	*	ADD BY WEIGHT CODE NUMBER	100 GALLON BATCH GALLONS	POUNDS	% BY WEIGHT	Tint	MANUFACTURING 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, DO
	*	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		
		S385	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		
							NOTE-N115 MAY BE USED FOR N161.
		YIELD	100.04	1047.9	100.00		Changes: ☐ R.M. ☐ Mfg. ☐ Phys.

Formulator SUTHERLAND/JES Approved MT/STB

GLD059980

FORM 1393 (BACK) PRINTED IN U.S.A. C&R FORMULA Formula or Lab No. Y-1600-6

TIROS

CODES

Trade Name DESCRIPTORS (20 spaces – limit) Customer

REVISED TO ELIMINA TE LEAD COMPOUNDS.

End Use

Specs.

#30 4 17 cdy per 9 IC 4/14/76

Royalty ☐ Yes X ☐ No Silicone ☐ Yes X ☐ No #3 Lithium QK 5.1.72

Resins V2390 F2233 Japan Paint 12.19.72

Resistance #10 (B Coppers) 7-17-72

Mfd. at Plants 1-2-5-7-11-12-14-15-16-17 11-20-72 Lilamar 8.15.72

#1 Rm 201 11.12.72

CUSTOMER CONDITIONS APPLICATION BRUSH/ROLL/SPRAY AD/BAKE 4-6 HOURS (A.D.) RECOAT TIME OVERNITE

QUALITY CONTROL

RED GRIND	FULL BODY VISCOSITY	METHOD	STD. GLOSS METHOD	COLOR MATCH	COLOR INSTRU	SAG STD
6-7	80-85 KU	4-C-1	50-60/9-A-1	DO NOT SHADE		A-10

APPLICATION	FILM THICKNESS	D. OR BAKE	MISC. TESTS	LINES	MISC
BRUSH	2-3 MIL	AIR DRY	CHECK SAG WITH LENETA BAR		COIL

STD WT./G	RED. VISCOSITY STD.	METHOD	REDISPERSION TINT TEST	STD. PENCIL HARD.	LABEL WARNING	FLASH PT.	LEAD
10.48			EC2-70-1		11-62	100	0

REDUCER	SUBSTRATE	STD. IMPACT METHOD	SPECIAL INSTRUCTIONS
S-385			CHECK GLOSS AND SAG ON TINT

CATALYST	POT LIFE	PH – A.N.O.	COLOR CARD	CURE TIME	STD. NV WEIGHT	TYPE FILTER	CLEANLINESS
					66.7		

P/ 32.6 NV/V 64.8 Sq. Ft./Dry Mil = 0 RMS/Sq. Ft./Dry # 0.000 RMS/Gal. 1.73

GLD059981