FORMULA RECORD BASE

FORMULA NO. Y-4600-

GOODS Spred Lustre - Super White

LABORATORY NO.

CONSISTENCY

COST CLASS DATE

FOR USE ON

STRAINER GRIND

CUSTOMER Less than 1% Lead

MILL Conles WT. OR

IS AGITATOR REQUIRED

VISC. F.S. 72-74 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 60-65°

NON VOL. FLASH PT 100°

MATCH FOR Y-4600

REDUCER S-240

MAT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

R. B. TO RECOAT IN Overnight

REMARKS:

50% Mill Base

41.5% NV by Vol.

37% P.V.C.

53.9% NV by Wt.

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Add in order listed:						
V-891				36.0	(273.6)	
H-218				(0.27)	4.0	
V-199				(0.88)	20.0	
H-255				(8.72)	300.0	
H-154				(5.53)	125.0	
Disperse to a grind and add:						
CH-185				(0.34)	3.0	
A-333				(0.40)	5.2	
S-72				0.21	(1.4)	
Mix 5 min.						
V-891				26	(197.6)	
S-240				20.4	(132.0)	
VM-433				0.37	(3.00)	
VM-816				0.75	(5.55)	
CH-359				0.14	(1.08)	
M-443					4-1/2 Lo	
181-A-6				Trace		
YIELD				100.01	1071.23	

Standard formula. Not to be taken from file.

N12096

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	Hess (Texas) 8-30-61 ①
		VEHICLE %	
		PIGMENT	
			In Y Enamel List 9-26-61 ①
			Plants #1-2-4-5-8-12-14-+17
		VEHICLE	#1 (Zier) 12-18-61 ①
			#15 7-24-62 ①
			Zier v. Angelo Caporaso 11-1-62

GLD059779

FORMULA RECORD

FORMULA NO. Y-4600-Q BASE

GOODS Spred Lustre - Super White

LABORATORY NO. (Atlanta Only)

CONSISTENCY

COST CLASS DATE 6/16/61

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				(.88)	20.0	
M-333				(.4)	5.2	
CH-185				(.34)	3.0	
W-218) Pre-Mix				(.27)	4.0	
S-72				.21	(1.4)	
V-891 (20 gals. in grind)				62.0	(473)	
S-240 (13 gals. in grind)				20.4	(132)	
VM-534				.37	(3.00)	
VM-816				.75	(5.55)	
CE-359				.14	(1.08)	
M-443						4-1/2 Oz.
181-A-6				Trace		
YIELD				100.01	1071.23	

Standard to be formula from File taken

IS AGITATOR REQUIRED

VISC. F.B. 72-74 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SEED 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-4600

REDUCER S-240

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN O.N.

REMARKS: Changed to improve gloss and sag.

%NV by Vol. -41.5

%NV by Wt. -64.6

% Mill Base - 49.4

FORMULATOR J.E. Southwick

GLD059780

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT	%	
		VEHICLE	%	#1(Southwick - Herzog - TMS)6/21/
		PIGMENT		#8 (Houck-Atwood) 6/21/61
				2 2 2-36-62
		VEHICLE		

GLD059781

GLIDDEN 400-M PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-460

GOODS Spred Lustre - Super White

LABORATORY NO.

CONSISTENCY

DISCONTINUED

COST CLASS. DATE

FOR USE ON

STRAINER GRIN

CUSTOMER No. 1 Less than 1% Lead See Y-4600-Q

MILL Pebble WT.

DELTA LATE DRIER DATED 6-16-6

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	GALS.	LBS.	OZS.
W-255				(8.72)	300.0	
W-154				(5.53)	125.0	
W-199				(.88)	20.0	
M-333				(.4)	5.2	
CH-185				(.34)	3.0	
W-218) Pre-Mix				(.27)	4.0	
S-72				.21	(1.4)	
V-891 (20 gals. in grind)				62.0	(471)	
S-240 (13 gals. in grind)				20.4	(132)	
VM-433				.37	(3.00)	
VM-816				.75	(5.55)	
CH-359				.14	(1.08)	
M-443						4-1/2 Loz.
181-A-6				Trace		
YIELD				100.01	1071.23	

Standard Formula Taken Not from File

VISC. F.B. 72-74 KU TEMP

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

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 O.N.

REMARKS: Changed to improve gloss and sag.

%NV by Vol. -41.5

%NV by Wt. -64.6

% Mill Base - 49.4

FORMULATOR J.E. Southwick

GLD059782

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT [illegible] %	[illegible]
		VEHICLE [illegible] %	
		100%	
		PIGMENT	
		Titanium Dioxide 68.1%	No. [illegible]
		Calcium Carbonate 28.9	No 11-62 NPVLA
		Magnesium Silicate 3.0	
		100.0%	Y Enamel List
			Plants #1-2-4-5-12
			17-7-[illegible]
		Tinting material less than [illegible]	Chile Colombia Ecuador
			Guatemala Japan Peru
		VEHICLE	Hwy Indies 11 15 11-61
		Soya Alkyd Resin 38.[illegible] %	
		Mineral Spirits & Drier 61.[illegible]	Cachet (#1) 6-1-61
		100.0%	
			TAS (#1) 7-28-61 (#1)
			Hess (Texas) 8-10-61 (1)
			Hess (#16) 9-19-61 (1)
			Japan Sikiran 4-4-62
		Y-4600- 069	Costa Rica 6-7-62

GLD059783

ELECTRO-MAC PRINTED IN U.S.A. FRONT

DISCONTINUED

FORMULA NO. Y-4600-P

GOODS Spred Lustre - Super White

LABORATORY NO.

CONSISTENCY

SEE Y-4600-Q

COST CLASS. DATE 6/9/60

FOR USE ON

STRAINER GRIND 6

CUSTOMER This Production Must Not Contain Lead

MILL Pebble WT. OR BE 10.6

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-238				(8.72)	300	
W-154				(5.53)	125	
W-199				(.56)	13	
M-333				(.4)	5.2	
CH-185				(.20)	1.75	
W-218) Pre-mix before				(.18)	2.3	
S-72) adding to mill.				.14	(1)	
V-891 (20 gal. in grind)				64.0	(486)	
S-240 (13 gal. in grind)				19.1	(128.5)	
VM-433				.37	(3.00)	
VM-816				.75	(5.55)	
CH-359				.14	(1.08)	
M-443					4-1/2 Lo	
181-A-6					Trace	
YIELD				100.09	1072	

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.R. 72-74 KU TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 60-65

NON VOL. FLASH PT.

MATCH FOR Y-4600

REDUCER S-240

ANT. FOR BRUSHING P.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to improve Gloss, viscosity, and sag resistance.

FORMULATOR J.E. Southwick

GLD059784

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-P
		PIGMENT 41 %		Spred Lustre - Super White
		VEHICLE 59 %		
		100%		
				6/9/60
		PIGMENT		
		Titanium Dioxide	68.1%	No. 1 Label Warning
		Calcium Carbonate	28.9	"Y" Enamel List 6-10-60
		Magnesium Silicate	3.0	(Keating Tubes) 6-[illegible]
			100.0%	Schultz (SF) 5-2-60
				[illegible] - Columbia - [illegible]
		Tinting material less than 5%		Guatemala Japan [illegible]
		VEHICLE		
		Soya Alkyd Resin	38.5 %	Marchi (#15) 2-7-61
		Mineral Spirits & Drier	61.5	
			100.0%	~~#5~~ #7 (Keating) 2-7-61
		Y-4600- 069		

GLD059785

GLIDDEN 468-M PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-4600-N

GOODS Spred Lustre - Super White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 9/14/59

FOR USE ON

STRAINER GRIND 6

CUSTOMER PRODUCTION MUST NOT CONTAIN LEAD

MILL Pebble WT. OR BE 10.5

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-238		3	9		300	
W-154		1	6		125	
M-333			1		5.2	
W-218 } pre-wet			7/16		2.3	
S-72 }		7/32 Loz		.14		
V-891	6-1/4			65.7 (20 gal. in grind)		
S-240	1-3/4			18.4 (13 gal. in grind)		
VM-432		1/2 Loz		.33		
D-83		1 Loz		.66		
VM-523		1/2 Loz		.33		
CH-359		3/16 Loz		.13		
M-443					4-1/2 Loz	
181-A-6	Trace					
YIELD	1.185			100		

IS AGITATOR REQUIRED

VISC. F.B. 70-73 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 60-65

NON VOL. FLASH PT.

MATCH FOR Y-4600

REDUCER S-240

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Same as Y-4650-B dated 8/12/59.

FORMULATOR J. Southwick

30-12-12

Standard Formula Not to be taken from File.

GLD059786

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-N
		PIGMENT 40.3 %		Spred Lustre - Super White
		VEHICLE 59.7 %		
		100.0%		9/14/59
		PIGMENT		
		Titanium Dioxide	70.0%	No. 1 Label Warning
		Calcium Carbonate	30.0	
			100.0%	Y Enamel Lot 9-15-59
				Lacking (Tube) 10-16-59
		Tinting material less than 5%		Panama (WRM) 3-14-60
				10 Ondes 4-6-60
				Guatemala - Chile - Cuba
		VEHICLE		Peru - Japan - Colombia
		Soya Alkyd Resin	40.0%	Ecuador - Worked 5-3-6
		Mineral Spirits & Driers	60.0	
			100.0%	Israel (Ora) 6-24-60
				Lebanon (SP) 9-2-60

FORMULA RECORD

FORMULA NO. Y-4600-M

GLOSS: Spred Lustre - White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 1/14/58

FOR USE ON: Y-4605, Y-4641, Y-4643, Y-4651, Y-4655, & Y-4663

STRAINER GRIND 6

CUSTOMER

MILL Pebble WT. OR BE 10.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
-208		2	12		235	
-754		1	8		128	
-53			2		10.8	
-195			1-7/8		10	
-670			3/4		4	
-165			1/4		1.3	
-633			1/2		3	
-860	2			22		
-240	1-3/4			18.6		
Grind Opernite to 6 and add:					Standard Formula	
-609	3-1/2			36.8	Not to be	
-240	3/4			8.0	from File	
-432			1/2	.33		
-530			3/8	.25		
-243			1/8	.09		
-443					4-1/2 Lbs.	
-455	1/2 Gallon per 400 gallons					
-A-6	Trace					
-R-227	Trace					
YIELD	1.27			100		

IS AGITATOR REQUIRED

VISC. F.B. 100-110 TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-4600 Color

Std.

REDUCER S-240

ANT. FOR BRUSHING P.R.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE: n TEMP

AIR DRIES IN 4-5 hrs

A. D. TO RECOAT IN O.N.

REMARKS:

DISCONTINUED

SEE 12-W-20

Changed to lower cost.

FORMULATOR J.E. Southwick

GLD059788

COST	DATE	ANALYSIS	CUSTOMERS Y-4600 N
		PIGMENT 37.7 %	Spred Lustre Alkyd Enamel
		VEHICLE 62.3 %	White
		100.0%	
		PIGMENT	
		Titanium Dioxide 61.0%	Y-4605 Peach Glow
		Calcium Carbonate 36.2%	
		Zinc Oxide 2.8	Y-4641 Crown Yellow
		100.0%	
			Y-4643 Cotton Candy
		Tinting material	Y-4651 Congo Ivory
		less than 5%	
			Y-4655 Springtime
		VEHICLE	
		Soya Alkyd Resin 43.2%	Y-4663 Smokey White
		Mineral Spirits & Driers 56.8%	
		100.0%	1/14/58
			No change in analysis.
		Chile 10-15-58	Schulte (SF) 9-3-60
		West Indies 1-19-59	Y Enamel Lt
		Japan 6-10-59	1-16-57
			Miller (B.P.) 1-16-57
			Portland-VIA-S.Fran 6-19-58
		1-16-3 7511	Cuba 6-30-58
		Guatemala 12-15-58	Ecuador 7-16-58

GLD059789

GLIDDEN 400-H PRINTED IN U.S.A. - FRONT

FORMULA RECORD

FORMULA NO. Y-4600-L

GOODS Spred Lustre - White

LABORATORY NO.

CONSISTENCY

COST CLASS.

DATE 11/1/57

FOR USE ON Y-4605, Y-4641, Y-4643, Y-4651, Y-4655,

STRAINER

GRIND 6

CUSTOMER Y-4663

MILL Pebble

WT. OR BE 10.3#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208		2	12		235	
W-154		1	8		128	
W-33			2		10.8	
W-195			1-7/8		10	
VM-679			3/4		4	
CH-185			1/4		1.3	
M-333			1		5.3	
V-869	2			22		
S-240	1-3/4			18.6		
Grind to	6 & add:					
V-869	3-1/2			36.8		
S-240	3/4			8.0		
VM-432			1/2	.33		
VM-530			3/8	.25		
CH-243			1/8	.09		
M-443					4-1/2 Loz.	
O-325				.14		
151-A-6	Trace					
93-R-227	Trace					
YIELD	1.17			100		

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-4600 Color std.

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 O.N.

REMARKS: Changed to use W-208

Standard Formula
[illegible] to be taken
from File

FORMULATOR J.E. Southwick

28-8

GLD059790

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-L
		PIGMENT 37.7 %	Spred Lustre Alkyd Enamel
		VEHICLE 62.3 %	White
		100.0%	11/1/57
			"Y" Trade Sales Ex. Lot 11-6
		PIGMENT	Buena P (S. Miller) "
		Titanium Dioxide 61.0%	Y-4605 Peach Glow
		Calcium Carbonate 35.2%	
		Zinc Oxide 2.8	Y-4641 Crocus Yellow
		100.0%	
			Y-4643 Cotton Candy
			Y-4651 Congo Ivory
		Tinting material less than 5%	
			Y-4655 Springtime
		VEHICLE	
		Soya Alkyd Resin 43.2%	Y-4663 Smokey White
		Mineral Spirits & Driers 56.8%	
		100.0%	
		Y-16-B 7511	

GLD059791

LADDER 400-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO.	Y-4600-K
LABORATORY NO.	
COST CLASS.	DATE **
STRAINER	GRIND
MILL	WT. OR BS
HS AGITATOR REQUIRED	
VISC. F.B.	100-110" TEMP.
VISC. RED.	TEMP.
VISCOSIMETER	#4 Ford Cup
COLOR	SHEEN 60-65°
NON VOL.	FLASH PT.
MATCH FOR	Y-4600 color std. dated Oct. 1956.
REDUCER	S-240
AMT. FOR BRUSHING	F.B.
SPRAYING	TUMBLING
DIPPING	DRIP TIME
BAKE	TEMP.
AIR DRIES IN	4 hrs.
A.D. TO RECOAT IN	Overnight
CATALYST	
AMT. OF CATALYST	* See attached formula for
POT LIFE	
STABILITY AT 200°F	Atlanta only
STABILITY AT 135°F	
STABILITY AT °F	
REMARKS	Changed to new color std.
FORMULATOR	J.E. Southwick
OK PCH	28-8-

Standard Formula Not to be taken

Gloss	Spred Lustre Alkyd Enamel
CONSISTENCY	
FOR USE ON	
CUSTOMER	

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-214		5	8		460	
W-33			1-1/2		7-1/2	
W-195			1-11/16		8-1/2	
VM-679			3/4		4	
M-333			1		5	
CH-185			1/2		2-1/2	
V-869	2-1/8			22		
S-240	1-3/4			18		
Grind overnight to 5-6 and add:						
V-869	3-3/8			35		
S-240	3/4			7-3/4		
VM-432			1/2			42 Loz.
VM-530			3/8			31 Loz.
CH-269			1/8			10 Loz.
M-443						4 Loz.
181-A-6	Trace			*See attached Experimental formula		
93-R-227	Trace					
Q-325	1/4-1/2 gals./400 gallons for visc.					
**Destroy formula dated 11/23/56.						
YIELD	1.20			100		

GLD059792

GLIDDEN ... PRINTED IN U.S.A. FORM

FORMULA RECORD

GOODS White Semi-Gloss Speedwall

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

FORMULA NO. Y-4600-A

LABORATORY NO.

COST CLASS. DATE

STRAINER GRIND

MILL Pebble WT. OR

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
[illegible]		1-1/2			600	
[illegible]-185			1		5	
[illegible]-300	1		0	10		
[illegible]-357	4-1/2			45		
[illegible]-63	3/4			7-1/2		
[illegible]-65	1/2			5		
S-148	1-1/4			12-1/2		
[illegible]-46			5	3-1/8		
[illegible]-75			1	5/8		
[illegible]-15			1	5/8		
[illegible]-269			1/8			10 Lo

We are to go back to the Y-4600-A formula dated 6/2/49 as per Mr. Mutersbaugh's letter of March 25, 1951 to Mr. Schulte, Mr. Dell and all superintendents.

YIELD

IS AGITATOR REQUIRED

VISC. F.B. 120-130" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65

NON VOL. FLASH PT. 100 F

MATCH FOR

REDUCER

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 24 hrs.

REMARKS

Standard Formula. Not to be taken from File.

FORMULATOR H. G. Hayward

25-6-4

GLD059820

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-K
		PIGMENT 43 %		Spred Lustre Alkyd Enamel
		VEHICLE 57 %		11/23/56
		100 %		
				"Y" Trade Sales List 12-7-56
		PIGMENT		
		Titanium Calcium	98.4%	Ecuador 2-14-57
		Zinc Oxide	1.6	
			100.0%	Joe Pierson 2-27-57
				Cuba 4-4-57
				Bradley 4-11-57
				Schulte 5-28-57
				R.A. Driers (Union Com. Bldg.) 7/8/5
		VEHICLE		
		Soya Alkyd Resin	43.2%	B. Park (Page) 8-22-57
		Mineral Spirits &Driers	56.8	
			100.0%	
		Y-4600	657	

GLD059793

SCIOCOPY CORP. PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-4600-K(Experi

GOODS Spred Lustre Alkyd Enamel

LABORATORY NO. [illegible]

CONSISTENCY

COST CLASS

DATE 6/27/57

FOR USE ON FOR READING ONLY

STRAINER

GRIND 5-6

CUSTOMER

MILL Pebble

WT. OR BE 10.9

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS	LBS.	OZS.
Y-214					460	
[illegible]-33					7-1/2	
VM-679					4	
M-333					5	
CH-185					2-1/2	
Y-869				57		
57-T-209-A				7		
S-240				19		
VM-432						42 Loz
VM-530						31 Loz
CH-269						10 Loz
181-A-6	Trace					
93-R-227	Trace					
C-325		1/4-1/2 gal./400 gallon pt.				
YIELD				100		

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65

NON VOL. FLASH PT.

MATCH FOR Y-4600 Color std

REDUCER

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN

A. D. TO RECOAT IN 4-6 hrs.

CATALYST

AMT. OF CATALYST

POT LIFE TEMP.

STABILITY AT 200°F

STABILITY AT 135°F

STABILITY AT °F

REMARKS

FORMULATOR J.E. Southwick

8-9

GLD059794

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT	Bryan (Rdg) 7-5-57 [redacted]
		VEHICLE	Clear only on "Y" Trade
			Sales Dist 8-13-57
		PIGMENT	
		VEHICLE	

GLD059795

FORMULA RECORD

FORMULA NO. * Y-4600-K(Atlan

GOODS Spred Lustre Alkyd Enamel - White

LABORATORY NO.

CONSISTENCY

COST-CLASS. DATE 9/5/57

FOR USE ON *Sent to Atlanta only. STRAINER GRIND 5-6

CUSTOMER MILL Pebble WT. OR SE 10.9

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Y-160					330	
W-170					130	
U-33					8	
R-195					8.5	
VM-679					4	
K-333					5	
CH-185					2.5	
V-869				22		
S-240				18		
Grind O.N. to 5-6 and add						
V-869				35		
S-240				7.7		
VM-132				.33		
VM-530				.24		
CR-243						10 Lo
K-443						4 Lo
181-A-5				Trace		
93-R-227				Trace		
U-325	1/4-1/2 gal/400 gallons for visc.					
YIELD				100		

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-4600 Color st

REDUCER S-240

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP-TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN O.N.

CATALYST

AMT. OF CATALYST

POT LIFE TEMP.

STABILITY AT 200°F.

STABILITY AT 135°F.

STABILITY AT °F.

REMARKS

FORMULATOR J.E.Southwick

OK PCH 8-9-5

GLD059796

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-K
		PIGMENT 43 %		Spred Lustre Alkyd Enamel
		VEHICLE 57 %		11/23/56
		100 %		
				Southwick-Herzog
		PIGMENT		Mutersbaugh & HMS 9-6-57
		Titanium Calcium	98.4%	Atlanta
		Zinc Oxide	1.6	
			100.0%	
		VEHICLE		
		Soya Alkyd Resin	43.2%	
		Mineral Spirits &Driers	56.8	
			100.0%	
		Y-4600	657	

GLD059797

GLIDDEN 100.0 PRINTED IN U.S.A. FACIT

FORMULA RECORD

FORMULA NO. Y-4600-J

GOODS Spred Lustra Alkyd Enamel

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 8/30/56

FOR USE ON

STRAINER GRIND 5-6

CUSTOMER

MILL Pebble WT. OR BE 10.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-214		5	8		460	
W-33			1-1/2		7-1/2	
W-195			1-3/4		9	
VM-679			3/4		4	
M-333			1		5	
CH-185			1/2		2-1/2	
V-869	2-1/8			22		
S-240	1-3/4			18		
	Grind ON to 5-6 and add:					
V-869	3-3/8			35		
S-240	3/4			7-3/4		
VM-432			1/2 Loz.			42 Loz
VM-530			5/16 Loz.			26 Loz
CH-269			1/8 Loz.			10 Loz
*Vandor-22			4 Loz/100 gal.			4 Loz
O-325			1/4 Gals./400 gals.			8 Loz
	*Van Ameringen-Hoebler Inc.					
YIELD	1.20			100		

IS AGITATOR REQUIRED

VISC. F.B. 100-110 TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-3418

REDUCER S-240

INT. FOR BRUSHING R.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

**Reissued to make a correction on formula dated 7/17/56.

FORMULATOR J.E. Southwick

OK PCH 28-8

Standard Formula. Not to be taken from File.

GLD059798

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-J
		PIGMENT 43 %	Spred Lustre Alkyd Enamel
		VEHICLE 57 %	White
		100 %	7/17/56
		PIGMENT	"Y" Trade Sales List 9-16-56
		Titanium Calcium 98.4%	
		Zinc Oxide 1.6	
		100.0%	
		VEHICLE	
		Soya Alkyd Resin	43.2%
		Mineral Spirits & Driers	56.8
			10000%
		Y-4600 657	

GLD059799

FORMULA RECORD

FORMULA NO. Y-4600-K

GOODS: Spred Lustre Alkyd Enamel

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 11/23/56

FOR USE ON

STRAINER

GRIND 5-6

CUSTOMER

MILL

WT. OR BE 10.9

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-214		5	8		460	
W-33			1-1/2		7-1/2	
W-195			1-11/16		8-1/2	
VM-679			3/4		4	
M-333			1		5	
CH-185			1/2		2-1/2	
V-869	2-1/8			22		
S-240	1-3/4			18		
Grind overnight to 5-6 and add:						
V-869	3-3/8			35		
S-240	3/4			7-3/4		
VM-432			1/2			42 Loz.
VM-530			3/8			31 Loz.
CH-269			1/8			10 Loz.
M-443						* Loz.
181-A-6	*Trace					
~~R-299~~ 93 R-227	Trace					
O-325	1/4-1/2 gals./400 gallons for visc.					
YIELD	1.20			100	* per	

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-4600 color std. dated Oct. 1956.

REDUCER S-240

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4 hrs.

A.D. TO RECOAT IN Overnight

CATALYST

AMT. OF CATALYST

POT LIFE TEMP.

STABILITY AT 100°

STABILITY AT 60°

STABILITY AT

REMARKS Changed to new col std.

FORMULATOR J.E. Southwick

OK PCH 28-8-

Standard Formula. Not to be taken from File.

GLD059800

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-K
		PIGMENT 43 %	Spred Lustre Alkyd Enamel
		VEHICLE 57 %	11/23/56
		100 %	
			Y. Trade Sales Dept 11-31-56
		PIGMENT	
		Titanium Calcium 98.4%	
		Zinc Oxide 1.6	
		100.0%	
		VEHICLE	
		Soya Alkyd Resin 43.2%	
		Mineral Spirits & Driers 56.8	
		100.0%	
		Y-4600 657	

GLD059801

FORMULA RECORD

FORMULA NO. Y-4600-J

GOODS Spred Lustre Alkyd Enamel

LABORATORY NO.

COST CLASS

DATE 7/17/56

FOR USE ON

STRAINER

GRIND 5-6

CUSTOMER

MILL Pebble

WT. OR BE 10.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-214		5	8		460	
W-33			1-1/2		7-1/2	
W-195			1-3/4		9	
VM-679			3/4		4	
W-333			1		5	
CH-185			1/2		2-1/2	
V-869	2-1/8			22		
S-240	1-3/4			18		
	Grind ON to 5-6 and add:					
V-869	3-3/8			35		
S-240	3/4			7-3/4		
VM-432			1/2 Loz.			42 Loz.
VM-530			5/16 Loz.			26 Loz.
CH-269			1/8 Loz.			10 Loz.
*Vandor-22			4 Loz/400 gal.			1 Loz.
Q-325			1/4 Gals./400 gals.			8 Loz.
	*Van Ameringen-Hoebler Inc.					
YIELD	1.20			100		

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR Y-3418

REDUCER S-240

AMP. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-5 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Standard Formula. Not to be taken from File.

FORMULATOR J.E. Southwick

OK PCH 28-8

GLD059802

COPY	DATE	ANALYSIS	CUSTOMERS Y-4600-J
		PIGMENT 43 %	Spred Lustre Alkyd Enamel
		VEHICLE 57 %	White
		100 %	7/17/55
			"Y" Trade Sales Inf 8-22-56
		PIGMENT	(All Plants)
		Titanium Calcium 98.4%	
		Zinc Oxide 1.6	
		100.0%	
		VEHICLE	
		Soya Alkyd Resin	43.2%
		Mineral Spirits & Driers	56.8
			10000%
		Y-4600 657	

GLD059803

FORMULA RECORD

FORMULA NO. V-4600-H-Emergenc

GOODS Speed-Wall Alkyd Semi-Gloss- White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS

DATE 10/10/55

FOR USE ON

STRAINER

GRIND 6

OUTSIDE

MILL Pebble

WT. OR GAL 10.3#/

CODE NUMBER	ONE GALLON BATCH PINTS	LBS	OZS.	LARGE BATCH GALS	LBS	OZS.
Titanox C-50		5				
V-33			2			
V-195			1-1/2			
VM-679			3/4			
CH-185			1/4			
M-333			1/2			
V-872	2					
S-240	1-3/4					
Grind to 6 then add:						
V-872	3-1/2					
S-240	3/4					
VM-432			1/2 Doz.			
VM-530			1/4			
CH-269			1/8			
CH-258			2 Lbs/400 gal.			
D-325			1/2 gal./400 gal.			
YIELD	1.19					

Standard Formula Not to be taken from file

DISCONTINUED

S.E.

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN 60-65

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-240

AGT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS

FORMULATOR J. Watson 28-8-

GLD059804

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	"Y" Trade Sales List 11-24-53
		VEHICLE %	Cuba 11-10-53
			[illegible] 11-22-53
			England 12-21-53
		PIGMENT	France 12-21-53
			Peru 12-21-53
		VEHICLE	

GLD059805

FORMULA RECORD

FORMULA NO. Y-4600-H *

GOODS Speed-Wall Alkyd Seal Gloss - White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 3/18/55

FOR USE ON

STRAINER GRIND 6

CUSTOMER

MILL Pebble WT. OR EE 10.2

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-163		2	12			
W-154		1	8			
W-33			2			
W-195			2			
VM-679			3/4			
CH-185			1/4			
M-333			1/2			
V-872	2					
S-240	1-3/4					
Grind to 6 and add:						
V-872	3-1/2					
S-240	3/4					
VM-432			1/2			
VM-630			3/16			
CH-269			1/8			
CH-254			2 Lbs/400 gal.			
O-325		1/2	gal./400 gal.			
*Reissued to show correction on CH-269.						
YIELD	1.17					

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON. VOL. FLASH PT.

MATCH FOR

REDUCER S-240

AMT. FOR BRUSHING FB

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4 Hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to eliminate VM-723.

FORMULATOR J.E.S.

28-8-7

GLD059806

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-H
		PIGMENT 37.7 %	Speed-Wall Alkyd Semi Gloss
		VEHICLE 62.3 %	White
		100.0 %	2/21/55
		PIGMENT	NO CHANGE IN ANALYSIS
		Titanium Dioxide	61.0% "Y" Trade Sales List 3-17
		Calcium Carbonate	36.2
		Zinc Oxide	2.8 England 12-21-55
			100.0 ~~France~~ 12-21-55
			Peru 12-21-55
			Columbia 7-10-56
		VEHICLE	
		Soya Alkyd Resin	43.2%
		Mineral Spirits & Driers	56.8
			100.0 %
			X [illegible]
		Y-4600 552	

GLD059807

FORMULA RECORD

GOODS: Speed-Wall Alkyd Semi Gloss - White

CONSISTENCY:

FOR USE ON:

CUSTOMER:

FORMULA NO. Y-4600-H

LABORATORY NO.

COST CLASS: DATE 2/21/65

STRAINER: GRIND 6

MILL Pebble WT. OF BE 10.3

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-163		2	12			
W-154		1	8			
W-33			2			
W-195			2			
VM-679			3/4			
CH-185			1/4			
M-333			1/2			
V-872	2					
S-240	1-3/4					
Grind to 6 and add:						
V-872	3-1/2					
S-240	3/4					
VM-432			1/2			
VM-530			3/18			
~~VM-269~~	CH-269		1/8			
CH-254			2 Loz/400 gal.			
O-325			1/2 gal./400 gal.			
YIELD	1.17					

Standard Formula Not to be taken from File.

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-240

AMT. FOR BRUSHING FB

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to eliminate VM-723.

FORMULATOR J.E.S.

28-8-7

GLD059808

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-H
		PIGMENT 37.7 %	Speed-Wall Alkyd Semi Gloss
		VEHICLE 62.3 %	White
		100.0 %	2/21/55
		PIGMENT	NO CHANGE IN ANALYSIS
		Titanium Dioxide	61.0%
		Calcium Carbonate	36.2 "Y" Trade Sales T 3-10
		Zinc Oxide	2.8
			100.0 %
		VEHICLE	
		Soya Alkyd Resin	43.2%
		Mineral Spirits & Driers	56.8
			100.0 %
		Y-4600 552	

GLD059809

FORM 480-A PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-460D-G

GOODS: White - Speed Wall Alkyd Semi Gloss

LABORATORY NO.

CONSISTS OF

COST CLASS: DATE 7/29/54

FOR USE ON

STRAINER GRIND 6

CUSTOMER

MILL Pebble Only WT. OR BE 10.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-163		2	12			
W-154		1	8			
W-33			2			
W-185			3/8			
VM-723			1			
VM-679			1			
M-333			3/4			
V-872	3					
S-240	1-1/8					
Grind	O.N. to 6					
V-872	2-1/2					
S-240	1-3/8					
VM-432			1/2	Loz.		
VM-530			3/16	"		
CH-243			1/8	"		
CH-254			1-1/4	Loz/100 gals. of paint		
O-325			2 Gals./400 gallons	"	"	
YIELD	1.17					

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-240

THIN FOR BRUSHING FB

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

RECOAT IN O.N.

REMARKS: Changed for batch non penetration, odor and brushing.

FORMULATOR J.E. Southwick

33-B-8

GLD059810

COST	DATE	ANALYSIS		CUSTOMERS Y-4600-G
		PIGMENT 37.7 %		Speed-Wall Semi Gloss
		VEHICLE 62.3 %		White
		100.0 %		7/29/54
		PIGMENT		"Y" Trade Sales List - All Pla
Rutile		Titanium Dioxide	61.0%	8-10-54
		Calcium Carbonate	36.2	
		Zinc Oxide	2.8	
			100.0 %	
		VEHICLE		
Refined		Soya Alkyd Resin (P.A. = 26-30%)	43.2%	
		Mineral Spirits & Driers	56.8	
			100.0 %	
		Y-4600	457	

GLD059811

GLIDDEN 2007H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. * Y-4600-F

GOODS: Speed Wall Alkyd Semi-Gloss - White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 2/5/54

FOR USE OF

STRAINER GRIND 5-6

CUSTOMER

MILL Pebble WT. OR BE

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-179		7	8			
W-33			4			
CH-185			1			
M-333			1			
67-T-300	1/2					
V-872	5-3/4					
S-43	1/2					
S-148	1-1/4					
D-15			2	Loz.		
D-75			1	"		
CH-243			1/8	"		
0-325	1 Gallon to 400 Gallon batch.					

* Reissued to include 0-325 in batch for flow and viscosity.

YIELD 1.34 Gal.

VISC. F.S. 95-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43 as needed

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-8 hrs.

A. D. TO RECOAT IN 24 hrs.

REMARKS:

0-320 2-4 Loz./gal. to raise sheen if needed

FORMULATOR J. Southwick

28-8-6

Standard Formula
Discontinued
See 1/21/54

Standard Formula
Not to be taken
from File.

GLD059812

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-F
		PIGMENT 50 %	2/5/54
		VEHICLE 50 %	Sowed Wall Alkyd Semi-Gloss
		100 %	White
		PIGMENT	
		Titanium Calcium 96.6%	[illegible] 3-2-54
		Zinc Oxide 3.4	Montreal [illegible] Small (Tor) 5-19-54
		100.0 %	
		VEHICLE	
		Soya Alkyd 43.8%	
		Liquid Driers & Mineral Spirits 56.2	
		100.0 %	
		Y-4600 452	

GLD059813

REGISTERED PRINTED IN U.S.A. FROM

FORMULA RECORD

FORMULA NO. Y-4600-F

GOODS Speed Wall Semi-Gloss-White

LABORATORY NO.

CLEISTOCK

COST CLASS. DATE 4/22/58

FOR USE ON

STRAINER GRIND 5-6

CUSTOMER

MILL WT. OR BE 11-3/

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-179		7	8			
W-33			4			
CH-185			1			
N-333			1			
67-T-300	1/2					
V-872	5-3/4					
S-43	1/2					
S-148	1-1/4					
D-16			2	Loz/gal.		
D-75			1	" "		
CH-269			1/8	" "		
D-320			2-4 Oz/gal. to raise sheen if needed.			
YIELD						

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43 as needed

ANT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-8 hours.

A. D. TO RECOAT IN 24 hours

REMARKS

FORMULATOR Southwick

25-6-4

GLD059814

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-F
		PIGMENT 50.0 %	Speed Wall Semi-Gloss
		VEHICLE 50.0 %	White
		100.0 %	
			3/22/52
		PIGMENT	All Plant 12-1-52
		Titanium Calcium 96.6%	Atlanta (2) 1-24-53
		Zinc Oxide 3.4	
		100.0 %	
		VEHICLE	
		Sova Alkyd 43.8%	
		Liquid Driers &	
		Mineral Spirits 56.2	
		100.0 %	
		Y-4600 254	

GLD059815

FORMULA RECORD

GOODS: Speed-Wall Semi-Gloss White

CONSISTENCY: Liquid

FOR USE ON:

CUSTOMER:

FORMULA NO.: Y-4600-E

LABORATORY NO.:

COST CLASS: DATE: 10/8/61

STRAINER: GRIND: 5-6

MILL: Pebble WT. OR BE: 11.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS	LBS.	OZS.
W-179		7	8		600	
OH-185			1		5	
M-333			3/4		3-3/4	
W-104			2		10	
67-T-300	1			10		
V-357	4-1/2			45		
O-63	1			10		
O-66	1/4			2-1/2		
S-148	1-1/4			12-1/2		
D-15			2	1-1/4		
D-75			1-1/2	15/16		
CH-269			1/8			10 Ozs.

REFORMULATED TO IMPROVE DRY:

Standard Formula Not to be taken from File.

YIELD:

IS AGITATOR REQUIRED:

VISC. F. 120-130° TEMP.

VISC. SED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN 60-65°

NON VOL. FLASH PT. 100°F

MATCH FOR

REDUCER

WAT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 8-10 hrs.

A. D. TO RECOAT IN 24 hrs.

REMARKS:

Y-46 - 4 Oz/gal to raise sheen when needed.

FORMULATOR: Southwick

25-8-4

GLD059816

COST	DATE	ANALYSIS	CUSTOMERS Y-4600-E
		PIGMENT 50.3	Spead-Wall Semi-Gloss
		VEHICLE 49.7	4600 White
		100.0 %	
			10/8/51
		PIGMENT	Forest City
		Titanium Calcium 100%	Shell-Glo Semi-Gloss
			All Plants 10-19-51
		VEHICLE	
		% Varnish 57.2 %	
		Linseed Oil 18.5	
		Mineral Spirits 25.0	
		Liquid Drier 1.3	
		100.0 %	
		% Non-Volatile (Linseed-	
		Oil, Ester Gum) 50 %	
		% Vol. (Mineral Spirits) 50%	
		100 %	
		Y-4600 1501	

GLD059817

GLIDDEN 440-H PRINTED IN U.S.A. FROM

FORMULA RECORD

GOODS Semi-Gloss Speed Wall White

CONSISTENCY

FOR USE ON

CUSTOMER

FORMULA NO. V-4600-D

LABORATORY NO.

COST CLASS. DATE 1/12/50

STRAINER GRIND 5-6

MILL Pebble WT. OR BE 12-3/8

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-179		7	8			
W-150		1				
M-333			1/2			
67-T-300	1/2					
V-872	6					
O-268	1/4					
S-140	1-1/4					
D-75			1 Loz/gal			
D-15			2 " "			
CM-243			1/8 " "			

IS AGITATOR REQUIRED

VISC. F.B. 100-120" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN

A. D. TO RECOAT IN 24 Hrs

REMARKS:

Standard Formula. Not to be taken from File.

FORMULATOR Southwick

25-6-4

GLD059818

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 52.7 %	All Plants 1-29-51
		VEHICLE 47.8 %	
		100.0%	
		PIGMENT	
		Titanium Calcium 58.2 %	
		Magnesium Silicate 11.8 %	
		100.0 %	
		VEHICLE	
		Varnish Synthetic 100.0%	
		Non Volatile Vehicle (Alkyd soya castor)	48.0%
		Volatile (Mineral Spirits)	52.0%
			100.0%

GLD059819

FORMULA RECORD

GOODS: White Semi-Gloss Speedwall

CONSISTENCY: Liquid

FOR USE ON:

CUSTOMER:

FORMULA NO. Y-4600-A

LABORATORY NO.

COST CLASS. DATE

STRAINER GRIND

MILL Pebble WT. OR BE

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
[illegible]-179		1-1/2			600	
[illegible]-185			1		5	
[illegible]-300	1		0	10		
[illegible]-357	4-1/2			45		
[illegible]-63	3/4			7-1/2		
[illegible]-55	1/2			5		
S-148	1-1/4			12-1/2		
				"		
[illegible]-46			5	3-1/8		
[illegible]-75			1	5/8		
[illegible]-15			1	5/8		
[illegible]-269			1/8			10 Lo

We are to go back to the Y-4600-A formula dated 6/2/49 as per Mr. Mutersbaugh's letter of March 25, 1951 to Mr. Schulte, Mr. Dell and all superintendents.

YIELD

IS AGITATOR REQUIRED

VISC. F.S. 120-130" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cu

COLOR SHEEN 60-65

NON VOL. FLASH PT. 100 F

MATCH FOR

REDUCER

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 24 hrs.

REMARKS

Standard Formula. Not to be taken from File.

FORMULATOR H. G. Hayward

25-6-4

GLD059820

COST	DATE	ANALYSIS	CUSTOMERS Y-1600-A
		PIGMENT 50.3 %	Speed-Wall Semi-Gloss
		VEHICLE 49.7 %	4600 White
		100.0 %	
			Forest City
		PIGMENT	Shell-Gls Semi-Gloss
			7/10/51
		Titanium Calcium 100%	
			All Plants 8-17-51
		VEHICLE	
		% Varnish 57.2 %	
		Linseed Oil 16.5	
		Mineral Spirits 25.0	
		Liquid Drier 1.3	
		100.0 %	
		% Non-Volatile (Linseed Oil Ester Gum)	50 %
		Volatile (Mineral Spirits)	50 %
			100 %
		Y-4600 15%	

GLD059821

GOODS Special T.S. G. White — FORMULA RECORD — FORMULA NO. Y-4600 C

CONSISTENCY Liquid — LABORATORY NO.

FOR USE ON — COST CLASS — DATE 8/22/50

CUSTOMER — STRAINER — GRIND 5-6

MILL — WT. OR BE 12 3/8

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
T-69		6	6			
T-91		2	2			
L-333			1/2			
67-T-300	3/4					
V-872	3/4					
*O-268	1/2					
S-118	1					
D-15			2 oz/gal			
D-75			1 oz/gal			
CH-243			1/8 oz/gal			
*Hold out 1/4 for gloss						

Not to be taken from File.

USE THIS FORMULA ONLY WHEN T-179 IS NOT AVAILABLE

YIELD

1 AGITATOR REQUIRED

VISC. F.S. 110-120" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 cup

COLOR White SHEEN 60-65

NON VOL. FLASH PT. 105°F

WATCH FOR

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN

A. D. TO RECOAT IN 24 hours

REMARKS

FORMULATOR H.G.H. 26-4

GLD059822

COST	DATE	ANALYSIS	CUSTOMERS
		FIGENT %	
		VEHICLE %	
		FIGENT	
		VEHICLE	

GLD059823

FORMULA RECORD

Goods White Semi Gloss Speedwall — Formula No. Y-4600-A

Consistency Liquid — Laboratory No.

For use on — Cost Class. — Date 6/2/49

Customer — Strainer — Grind 5-6

Mill Pebble — Wt. or Be 11.7#

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.	In agitator required 11.7# Temp.
W-179		7-1/2			600	Viscosity 120-130 Temp.
CE-185			1		5	Viscosimeter #4 Cup
						Color Sheen 60-65
67-T-300	1			10		Non Vol. Flash Pt. 100-F
V-357	4-1/2			45		Match for
O-63	3/4			7-1/2		
O-65	1/2			6		Reducer
S-148	1-1/4			12-1/2		Amt. for brushing
						Spraying Tumbling
V-46			5	3-1/8		Dipping Drip time
D-75			1	5/8		Bake Temp.
D-16			1	5/8		
CE-~~345~~ 169			1/8	10 Liq	ozs	Air dries in Overnite
						A. D. to recoat in 24 hrs
						Remarks:

Standard Formula. Not to be taken from File.

We are to go back to the Y 4600A formula dated 6/2/49 as per Mr. Mullerbaugh letter of March 16 1951

Yield [illegible] Formulator H. G. Hayward

75-6-4

GLD059824

Cost	Date	Analysis		Customers Y4600-A
		Pigment 50.3	%	
		Vehicle 49.7	%	Speed-Wall Semi-Gloss
				4600 White
		Pigment		Forest City
		Titanium Calcium	100%	Shell-Glo Semi-Gloss
				7/10/51
				All plants 6-10-49
		Vehicle		
		Varnish	57.2%	
		Linseed Oil	16.5	
		Mineral Spirits	25	
		Liquid Drier	1.3	
			100.0	
		Non Volatile 60% (Linseed Oil		
		Ester Gum)		50%
		Volatile (Mineral Spirits)		50
				100%
		Y4600	137	

GLD059825

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FORMULA RECORD

alternate

Goods White S.G. Speedwall — Formula No. 4600

Consistency Liquid — Date 1-8-46 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specification
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W 69		3	10							Grind 6
W 91			10							Kind of Mill Pebble
W 66		4	4							Strainer
CH 185			1							Weight per Gallon 12 #
										Light Baume Temp.
										Heavy Baume Temp.
67T300	1									Viscosity 120-130 Temp.
V 357	4									Viscosimeter #4 Cup
0 63	3/4									Flash Point
0 65	1/2									Is Agitator Required
S 43	1/4									Remarks
S-148	1 1/2									This formula was
										made to use up
V 48	5 oz/gal for sheen									stock of W-66
D 2A	1 1/4 oz/gal									Cleveland only
Yield	— Not to be used for Tests —									Beach

GLD059826

Characteristics and Method of Using	Cost Data				Customers
Type of Goods Wood Panel					Stock
Color White					
Luster S-G					
Match for					
Kind of Reducer D-43					
Amount of Reduction for					
Brushing F-G					
Spraying Pressure					
Dipping Drip Time	Analysis				
Flocoing Drip Time					
Tumbling					
Air dry to recoat Overnight					
To Sand or Rub					
Bake Time Temp.					
Rub with					
Polish with					
Schedule					

GLD059827

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FORMULA RECORD

Goods White Semi Gloss Speedwall — Formula No. Y4600

Consistency Liquid — Date 10-1-45 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch Pints	One Gallon Batch Lbs.	One Gallon Batch Ozs.	100 Gallon Batch Gals.	100 Gallon Batch Lbs.	100 Gallon Batch Ozs.	Gallon Batch Gals.	Gallon Batch Lbs.	Gallon Batch Ozs.	Manufacturing Specifications
W-179		7	8		600					Grind 6
CH 185			1		5					Kind of Mill Pebble
										Strainer
67T300	1			10						Weight per Gallon 11.4
V-757	4			40						Light Baume Temp.
063	3/4			7 1/2						Heavy Baume Temp.
065	1/4			5						Viscosity 120-130 Temp.
S43	1/4			2 1/2						Viscosimeter #4 Cup
S148	1 1/2			15						Flash Point
										Is Agitator Required
V-48			5	3 1/8	hold to adjust shrem					Remarks
D-2A			1 1/4	3/4						Shrem 60-65
										H.G.H.
Yield										J.P.M.

Standard Formula
Not to be taken
from File.

GLD059828

Characteristics and Method of Using	Cost Data				Customers
Type of Goods					
Color					
Luster					
Match for					
Kind of Reducer					
Amount of Reduction for					
Brushing					
Spraying Pressure					All plants 10-5-45
Dipping Drip Time	Analysis				
Flooring Drip Time	[illegible]				[illegible]
Tumbling	[illegible]				[illegible]
Air dry to recoat					[illegible]
To Sand or Rub	[illegible]				
Bake Time Temp.	[illegible]				[illegible]
Rub with					
Polish with	[illegible]				
Schedule	[illegible]				[illegible]
	[illegible]				[illegible]
	[illegible]				[illegible]
	[illegible]				[illegible]
					[illegible]

GLD059829

PRINTED IN U.S.A. (D)

FORMULA RECORD

DISCONTINUED

Goods: White Semi Gloss Speedwell

Formula No. Y-460

Consistency: Liquid

Laboratory No.

For use on

Cost Class. Date

Customer

Strainer Grind

Mill

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-174		7			560
[illegible]			1		5
67-T-300	1			10	
V-357	4 1/2			45	
O-63	3/4			7 1/2	
O-65	1/2			5	
S-148	1 1/4			12 1/2	
⊗ V-46			5	3 1/8	
D-44			1	5/8	
D-15			1	5/8	
⊗ use to adjust sheen					
[illegible]					
[illegible]					
	Discon				
	See				
Yield				103	

Is agitator required

Wt. or Be 11 1/4 # Temp.

Viscosity 120-130 Temp.

Viscosimeter #4 [illegible]

Color Sheen [illegible]

Non Vol. Flash Pt. [illegible]

Watch for

Reducer

Amt. for brushing F B

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in 12 [illegible]

A. D. to recoat in 24 [illegible]

Remarks:

Formulator H G Haywood

GLD059830

Cost	Date	Analysis	Customers
		Pigment 47.0 %	Old Plants 1-27-49
		Vehicle 53.0 %	
		Pigment	
		Titanium Calcium 100 %	
		Vehicle	
		Varnish	58.9
		Treated Linseed Oil	16.6
		Mineral Spirits	23.5
		Liquid Drier	0.8
			100.0
		Non Volatile 54 %	

GLD059831

[illegible] PRINTED IN U.S.A. (D)

FORMULA RECORD

Alternate

Goods White S. F. Speedwall — Formula No. Y4600

Consistency Liquid — Date 5-7-47 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.	Manufacturing Specification
W-69		6	6							Grind 6
W-91		2	2							Kind of Mill Pebble
										Strainer
CH-85			1							Weight per Gallon 12½
										Light Baume Temp.
[illegible]	1									Heavy Baume Temp.
V-357	4									Viscosity 110-125 Temp.
O-63	¾									Viscosimeter #4 Cup
O-65	½									Flash Point
S-43	¼									Is Agitator Required
										Remarks H. G. Hayward
S-148	1½									
										Sheen 60-65
V-48			5oz to gal for sheen							
[illegible]			1¼oz to gal.							
[illegible]										
Yield										

DISCONTINUED

SEE Y4600 Temp 12/15/47

Standard Formula. Not to be taken from File

GLD059832

Characteristics and Method of Using	Cost Data				Customers
Type of Goods					
Color					
Luster					
Match for					
Kind of Reducer					
Amount of Reduction for					
Brushing					all plants 5-12-47
Spraying — Pressure					
Dipping — Drip Time	Analysis				
Flowing — Drip Time					
Tumbling					
Air dry to recoat					
To Sand or Rub					
Bake Time — Temp.					
Rub with					
Polish with					
Schedule					

GLD059833