FORMULA RECORD

Goods [illegible] Formula No.

Consistency Date 5-30-45 Laboratory No. V-1500-J

For Use On Cost Classification

CODE NUMBER	ONE GALLON BATCH GALS.	LBS.	OZS.	100 GALLON BATCH GALS.	LBS.	OZS.	GALLON BATCH GALS.	LBS.	OZS.
V-2 paste					353.7				
V-36					330.				
V-116					125.				
V-10					115.				
V-11					323.7				
O-63				3.75					
O-132				93.75					
O-132				13.78					
O-32 X				7.2					
O-13				3.5					

Standard Formula Not to be taken from File.

YIELD

MANUFACTURING SPECIFICATIONS

GRIND 0 2

KIND OF MILL PD11

STRAINER

WEIGHT PER GALLON 18.32

LIGHT BAUME TEMP.

HEAVY BAUME TEMP.

VISCOSITY 87-89KU (TEMP. 80)

VISCOSIMETER STORMER

FLASH POINT

IS AGITATOR REQUIRED

REMARKS

X Do not [illegible] for V-35.

Mark Batch Slip "Do Not Use O.O.K."

GLD060402

FORMULA RECORD

Goods: Glidden Endurance Paint - Outside White — Formula No. [illegible]

Consistency — Date 8-14-25 Old No.

For Use on — Cost Classification

1	5	½ Bbl	Bbl.	2 Bbl.	Code No.	Per cent	Manufacturing Specifications
30	Gals.	Acid Ref'd. Linseed Oil			O-2		Grind
32	"	Raw Linseed Oil			O-3		Kind of Mill
4	"	Texaco			S-43		Rate per hr.
5	"	White Enamel Drier			D-15		Strainer
1	gal	Water			S-14		Weight per Gallon
1 1/4	gals.	H.B. Blown Linseed Oil			O-64		Light Baume Temp.
							Heavy Baume Temp.
300	lbs.	Euston White Lead			W-76		Viscosity Temp.
100	lbs.	Special Sunolith			W-77		Make of Viscometer
600	lbs.	35% Leaded Zinc			W-6		Flash Point
60	"	Barytes			W-10		Is Agitator Package Required
60	"	Asbestine Pulp			W-11		Remarks
							DISCONTINUED
Note							
	Corrected formula - Analysis						SEE G1800.H
	to agree as originally made						

GLD060403

Liquid	33.5%
Pigment	66.5
	100.0%

Liquid:

Linseed Oil	89.0%
Mineral Spirits	4.5
Drier (Lead Free)	6.5
	100.0%

Pigment:

Basic Carbonate White Lead	27.0%
Basic Sulphate White Lead	18.5
Lithopone	8.9
Zinc Oxide	35.0
Barium Sulphate	5.3
Magnesium Silicate	5.3
	100.0%

Weight per gal. 17 1/4 lbs.

Steel Pails 5's

Round Cans 1's 1/2's 1/4's.

"Endurance Paint - Prepared" Special Label.

GLD060405

A 830 B 2m 11-30 Printed in U.S.A.

FORMULA RECORD

Goods: End. Paint Outside White — Formula No. 7 1505 L

Consistency — Date 11/18/32 — Old No.

For Use on — Cost Classification

Code Number	1	5	½ Bbl.	Bbl.	2 Bbl.		Manufacturing Specifications
0125	12	gal	12	gal			Grind C
04	18	"					Kind of Mill Stone
A132	2½	"	4½	"			Rate per hr.
064	2	"	2	"			Strainer
** V715	2	"	2	"	DISCONTD		Weight per Gallon 17 7#
D15	5	"	5	"			Light Ranine Temp.
243	3	"	3	"	SEE 7/1800K		Heavy Ranine Temp.
							Viscosity Temp.
* X14	2 gal		2 gal				Make of Viscosimeter
W76	300#						Flash Point
W77	100#						Is Agitator Package Required
W6	600#						Remarks.
W10	60#						P 3005
W11	60#						
							Goods 1st Grade
* Note - Put X14 in Mixer with dry Pigments							
** — Add V715 only if needed for body.							
Yield							

GLD060406

A4WC 2M5m 8-51 Printed in U.S.A.

FORMULA RECORD

Goods: Endurance Outside White Formula No. 71800K

Consistency Liquid Date 5/25/33 Lab. No.

Font: Use on Cost Classification

Code Number	1	5	½ Bbl.	Bbl.	2 Bbl.		Manufacturing Specifications
0141						30#	Grind 77
0160	White Base					30	Kind of Mill Stone or Pebble
063						2	Rate per hr.
315						5	Strainer
343						2	Weight per Gallon 17.74#
351			DISCONTINUED			1	Light Baume Temp.
514						12	Heavy Baume Temp.
			SF 71800L				Viscosity Temp.
W76						500#	Make of Viscosimeter
W55						400#	Flash Point
W95						80#	Is Agitator Package Required
W10						60#	Remarks
W11						60#	J.R.W.
Yield/Gal							

GLD060407

4200 SUM 6-40 PRINTED IN U.S.A. (WF)

FORMULA RECORD

Goods Endurance Outside White Formula No. Z 1800-L

Consistency Date 11-1-35 Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
0141				30						Grind C
0132				33						Kind of Mill pebble
065				5						Strainer
D-15				5						Weight per Gallon 17 1/4#
S-43				2						Light Baume Temp.
S-51				1						Heavy Baume Temp.
S-14				1						Viscosity Temp.
										Viscosimeter
WF-404					300					Flash Point
WF-6					600					Is Agitator Required
WF-45					100					Remarks
WF-10					60					
WF-11					60					
Yield										

Standard Formula. Not to be taken from File.

Discontinued per Z 1800 M.

GLD060408

450-B 50M 7-36 (E3)

FORMULA RECORD

Goods: Endurance Outside White — Formula No. Y1800.4

Consistency: Liquid — Date: 2/10/37 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
0132				63						Grind C
065				5						Kind of Mill
315				5						Strainer
543				2						Weight per Gallon 17¼ #
551				1			DISCONTINUED			Light Baume Temp.
514				1						Heavy Baume Temp.
							SEE Y1800N			Viscosity Temp.
W117					750					Viscosimeter
W104					150					Flash Point
W95					100					Is Agitator Required
W10					60					Remarks
W11					60					JPW

Add 514 to Pigments in Mixer before Adding oil.

This formula is being issued to make use of the new Analysis. Composition is the same as formula dated 1-27-36

Yield

GLD060409

480-D 50M 7-35 (2)

FORMULA RECORD

Goods Endurance Outside White — Formula No. Y-1800 N

Consistency Liquid — Date 8-26-37 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	100 Gallon Batch Gals.	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.
O-132				53					
O-5				12½					
O-62				2½					
O-15				5					
J-49				2½					
J-14				1½					
W-117					750				
W-104					150				
W-95					100				
W-10					60				
W-11					60				
Yield									

DISCONTINUED
SEE Y-1800-P

Add S-14 to pigments in mixer before adding liquid vehicle.

Manufacturing Specifications	
Grind	C
Kind of Mill	Stony Creek
Strainer	80 Mesh
Weight per Gallon	17¼ lbs.
Light Baume	Temp.
Heavy Baume	Temp.
Viscosity	Temp.
Viscosimeter	
Flash Point	
Is Agitator Required	
Remarks	

Add Plants 8-28-37

GLD060410

4800 8GM 7-39 PRINTED IN U.S.A. (WF)

FORMULA RECORD

Mix J. O. Yaqu

Goods Carnauba Cutting Paste — Formula No. [illegible]

Consistency Liquid — Date 12/5/39 — Laboratory No. 0

For Use on — Cost Classification

Code Number	One Gallon Batch			[illegible] Gallon Batch			[illegible] Gallon Batch			Manufacturing Specification
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
01	2.1			25			200			Grind C
0132	1.8			25			200			Kind of Mill [illegible]
03	1.2			15			120			Strainer
04	.2			2			20			Weight per Gallon [illegible]
05	.6			6			60			Light Baume Temp.
043	.2			2½			25			Heavy Baume Temp.
014	.15			1½			15			Viscosity Temp.
										Viscosimeter
W6					560			5600		Flash Point
W104					300			3000		Is Agitator Required
W133					80			800		Remarks
W10				[illegible]	140			1400		9 Gal
W11				[illegible]	120			1200		
				[illegible]	[illegible]					DISCONTINUED
Reread to [illegible] Staining From Cotton										
Screens and To make 1% analysis										
Similar to Combination										SEE J 1800
Yield										

GLD060411

FORMULA RECORD

Goods Outside White Endurance Paint Formula No. Y1800R

Consistency Liquid Date 6-4-41 Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W6					550					Grind C
W104					210					Kind of Mill
W132					140					Strainer
W10					100					Weight per Gallon 14.9
W11					200					Light Baume Temp.
					1200					Heavy Baume Temp.
0132				6 7						Viscosity Temp.
063				3½						Viscosimeter
D15				5½						Flash Point
S43				4						Is Agitator Required
67T9				1						Remarks
										N.G. 12
Changed to improve hiding and self cleaning properties.										AUG 30 1941
					DISCONTINUED					
					SEE Y1800L					
Yield										

GLD060412

460-E PRINTED IN U.S.A. IWPI

FORMULA RECORD

mon g. liquid

Goods Outside White Endurance Paint Formula No. Y1800R

Consistency Liquid Date 6-4-91 Laboratory No.

For Use on L Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W6		6			550					Grind C
W104		2			210					Kind of Mill
W132		1			140					Strainer
W10					100					Weight per Gallon 11.9
W11		2			200					Light Baume Temp.
										Heavy Baume Temp.
0132				67						Viscosity Temp.
063				3½						Viscosimeter
D15				5½						Flash Point
543				4						Is Agitator Required
67T9				1						Remarks
										DISCONTINUED
										SEE Y1800S
Changed to improve hiding and										
self cleaning properties.										
Yield										

Standard Formula
Not to be taken
from File

GLD060413

FORMULA RECORD

Goods Ordnance Cotsack White — Formula No. 1800 A

Consistency Stand. — Date 1/23/42 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch Pints	One Gallon Batch Lbs.	One Gallon Batch Ozs.	Gallon Batch Gals.	Gallon Batch Lbs.	Gallon Batch Ozs.	Gallon Batch Gals.	Gallon Batch Lbs.	Gallon Batch Ozs.	Manufacturing Specifications
A-179		6			48#					Grind C
A-6		3			24#					Kind of Mill
A-105		2 1/2			20#					Strainer
A-11		1 1/2			12#					Weight per Gallon 11-12
										Light Baume Temp.
6132	6 3/4			6 1/2						Heavy Baume Temp.
063	1/4			2/2						Viscosity Temp.
D-15	1/2			5						Viscosimeter
5178	3/8			3 3/4						Flash Point
6179	1/8			1 1/4						Is Agitator Required
										Remarks
Temporary formula use until further advised										J.P.W. H.E.H. AUG 30 1945
1/2 pound for each One Thousandth of Linseed Fatty Acid per gallon of paint may be added to increase body										
Yield										

DISCONTINUED SEE A 1800 K 8-7-45

GLD060414

400-B 2M 6-41 PRINTED IN U.S.A. (WP)

FORMULA RECORD

Goods Endurance Cutting White — Formula No. V1600

Consistency Liquid — Date 11/28/42 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
1 [illegible]		6			480					Grind C
[illegible] 0		3			240	+ 18.5				Kind of Mill
[illegible] 109	1	1 1/2			200	+ 2.5				Strainer
[illegible] 11		1 1/2			120					Weight per Gallon 7-1-42
										Light Baume Temp.
0132	6 1/4			6 1/2	Quart					Heavy Baume Temp.
0163	1/4			2 1/2	Gallon					Viscosity Temp.
015	1/2			5						Hydrometer
178	3/8			3 3/4	Make Up					Flash Point
0114	1/8			1 1/4						Is Agitator Required
										Remarks
Temporary formula use										1160
until further advised										
3 Drops for Each ONE Gallon Batch										Doc. 5
Linseed Fatty Acid per Gallon of paint										
must be added to each Batch										11607
Yield										

DISCONTINUED SEE V1800-T

GLD060415

150-D BRM 11-41 PRINTED IN U.S.A. (B)

FORMULA RECORD

Goods Outside White Undercoater — Formula No. V1800T

Consistency Liquid — Date 5/20/42 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specificatio
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W176					200					Grind C
10 6					375					Kind of Mill
W.W. No 10 7(					110		10%			Strainer
W10					100		9.1%			Weight per Gallon 15.7
W11					315		28.6%			Light Baume Temp.
					1100					Heavy Baume Temp.
0132				65/2						Viscosity Temp.
063				4						Viscosimeter
D15				5/2						Flash Point
543				4						Is Agitator Required
6TT9				1						Remarks
										O.P.W.
										8
DISCONTINUED										
SEE V1800X										
8/25/42										
Yield										

GLD060416

888-D 50M 11-41 PRINTED IN U.S.A. (B)

FORMULA RECORD

Goods Outside White Enamels Formula No. Y-1800-T

Consistency Liquid Date 3/20/42 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 Specifications
W178	15 Mose 35	25			200					Grind C
K-5	75	Mose 2	83		375					Kind of Mill
W32 W91					110					Strainer
W10					100					Weight per Gallon 15.1#
W11					315					Light Baume Temp.
					100					Heavy Baume Temp.
0132				6 1/2						Viscosity Temp.
063				4						Viscosimeter
D15				5 1/2						Flash Point
S43				4						Is Agitator Required
6779				1						Remarks
										J.F.W.
										DISCONTINUED
										SEE Y-1800-U
Yield										

Standard Formula. Not to be taken from file.

GLD060417

4810 BOM 6-40 PRINTED IN U.S.A. (MP)

FORMULA RECORD

Goods Endurance Outside White Formula No. Y-1800-V

Consistency Date 12-11-42 Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
0132				6 7/12						Grind
0603				3 3/4						Kind of Mill
D-15				5						Strainer
S-43				3 3/4						Weight per Gallon
										Light Baume Temp.
W-104					300					Heavy Baume Temp.
W-6					450					Viscosity Temp.
W-132					100					Viscosimeter
W-10					120					Flash Point
W-11					250					Is Agitator Required
					1250					Remarks
				Use Same						
				per Y-1800-V						
Yield										

GLD060418

AQ-D-98M 11-41 PRINTED IN U.S.A. (9)

FORMULA RECORD

Goods Paint Interior Outside White Formula No. V1800

Consistency Liquid Date 3-1-43 Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			50 Gallon Batch			100 Gallon Batch			Manufacturing Specification
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
3 [illegible] 1104	1	2	10					1050		Grind
2 [illegible] 3X		1	11					200		Kind of Mill
W 132		1	4					100		Strainer
W 10		2	8					200		Weight per Gallon 14.2
W 11		2	3					170		Light Baume Temp.
								120		Heavy Baume Temp.
D 132	3/8						33¼			Viscosity Temp.
D 286	2						20			Viscosimeter
D 15	¼						5			Flash Point
S 43	1/8						16¾			Is Agitator Required
S 142	½						5			Remarks
										W.K.M.
Use the Instructions Sheet of Code										AUG 30 1943
Thinners Sheet of Code										
DISCONTINUED										
Yield SEE V1800 K 08/25/48										

GLD060419

JED-D 50M 2-41 PRINTED IN U.S.A. (B)

FORMULA RECORD

Goods Evaporated Petrolatum Emulsion — Formula No. 4-18004

Consistency Liquid — Date 2-15-44 — Laboratory No.

For Use on [illegible] — Cost Classification

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.
W104	[illegible]	3	10					290	
W6	[illegible]	5	12					460	
W91	[illegible]	1	4					100	
W10	[illegible]	2	8					200	
W11	[illegible]	2	2					170	
O-1	2 3/4						27 1/2		
O-286	2 1/2						25		
D-15	1/2						5		
E-43	1 3/4						17 1/2		
E-148	1/2						5		

DISCONTINUED 10-1-47 SEE W-11

Standard Formula Not to be taken from File.

Replaces 4-18001 Date 3-1-43

Yield 1 0

Manufacturing Specifications

Grind C

Kind of Mill

Strainer

Weight per Gallon 16.2#

Light Baume Temp.

Heavy Baume Temp.

Viscosity 85-90 Temp. K.K.

Viscosimeter Kreeka

Flash Point Cleveland

Is Agitator Required

Remarks H. G. H.

3.75# oil/gal

GLD060420

FORMULA RECORD

Goods Endurance Outside White — Formula No. V1800W

Consistency Liquid — Date 10-11-43 — Laboratory No.

For Use on — Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W104		2	8					200		Grind C
W6		8	3					655		Kind of Mill Pebble
W69		2	4½					183		Strainer
W16		1	3					95		Weight per Gallon 16.5#
W11		1	2					90		Light Baume Temp.
										Heavy Baume Temp.
D1	2¾						27½			Viscosity 80-85" Temp 77
D286	2⅜						26¼			Viscosimeter
D15	½						5			Flash Point
S43	1⅜						16¼			Is Agitator Required
S148	½						5			Remarks
										Hayward
	Changed to replace Titanium Oxide									H. G. F.
										AUG 30 1946
	DISCONTINUED									
	SEE V1800K 8-25-48									
Yield										

GLD060421

460-D 30M-2-44 PRINTED IN U.S.A. (D)

FORMULA RECORD

Goods Endurance House Paint Tint Formula No. 4 1800X

Consistency Date 2-22-45 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
E 191		1	9½					127½		Grind C.
E 16		6						480		Kind of Mill Pebble
E 11		3	13					305		Strainer
E 10		1	4					100		Weight per Gallon 14.8#
										Light Baume Temp.
G-1	2¾						27½			Heavy Baume Temp.
G-286	2½						25			Viscosity 84-90 Temp. K.
D-15	½						5			Viscosimeter
S-43	1¾						17.5			Flash Point
S-148	½						5			Is Agitator Required
										Remarks A.G.H.
This replaces formula of 1-23-45										3.72#/gal
an error appeared in amount of W10										1-23-45
				DISCONTINUED						
				4 1800			4 1/29/47			
Yield										J.P.W.

Standard Formula. Not to be taken from File.

GLD060422

445-D 50M 10-48 PRINTED IN U.S.A. (B)

FORMULA RECORD

Goods [illegible] Formula No. [illegible]

Consistency [illegible] Date [illegible] Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
[illegible]		[illegible]	[illegible]					[illegible]	[illegible]	Grind [illegible]
[illegible]		[illegible]						[illegible]		Kind of Mill [illegible]
[illegible]		[illegible]	[illegible]					[illegible]		Strainer
[illegible]		[illegible]	[illegible]					[illegible]		Weight per Gallon [illegible]
[illegible]	[illegible]						[illegible]			Light Baume Temp.
[illegible]	[illegible]						[illegible]			Heavy Baume Temp.
[illegible]	[illegible]						[illegible]			Viscosity [illegible] Temp. [illegible]
[illegible]	[illegible]						[illegible]			Viscosimeter
[illegible]	[illegible]						[illegible]			Flash Point
[illegible]	[illegible]						[illegible]			Is Agitator Required
										Remarks [illegible]
[illegible]	[illegible]	[illegible]						[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]								
Yield										

DISCONTINUED
12/1800 4
11/29/44

Standard Formula.
Not to be taken
from File

GLD060423

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 12-6-4
Spraying Pressure					
Dipping Drip Time	Analysis				
Flocoing Drip Time					
Tumbling					
Air dry to recoat					
To Sand or Rub					
Bake Time Temp.					
Rub with					
Polish with					
Schedule					

GLD060424

323-D WM 7-41 PRINTED IN U.S.A. (D)

FORMULA RECORD

Goods Endurance Outside White Formula No. Y-1800X

Consistency Date 11-20-46 Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W-9		1	9½		127½					Grind 1-3
W-6		6			480					Kind of Mill Pebble
W-11		3	13		305					Strainer
W-10		1	4		100					Weight per Gallon 14½#
										Light Baume Temp.
05	1			10						Heavy Baume. Temp.
01	13/4			17½						Viscosity 85-90 Temp.
07-86	2½			25						Viscosimeter
S-43	1 11/16			16 7/8						Flash Point
S-148	1/2			5						Is Agitator Required
D-15	9/16			5 5/8						Remarks

Use formula dated 8-25-48

DISCONTINUED

SEE Y-1800X

Standard Formula. Not to be taken from file.

Yield 8½ 9#4

GLD060425

10-D 50M 3-46 PRINTED IN U.S.A. (B)

FORMULA RECORD

Goods Endurance Outside White Housepaint Formula No. Y-1800 Y

Consistency Liquid Date 1-29-47 Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specifications
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
W104		1	4					100		Grind 1-2
W-6		5	15					475		Kind of Mill Pebble
W-71		1	7½					117½		Strainer
W-11		3	2					260		Weight per Gallon 15.35
W-10		1	10					130		Light Baume Temp.
O-286	2½						25			Heavy Baume Temp.
O-1	1¾						17½			Viscosity 85-90 Temp. K-U
O-5	1						10			Viscosimeter Stormer
S-43	1 15/16						16 3/4			Flash Point
S-148	½						5			Is Agitator Required
P15	3/16						6 5/8			Remarks H.G.H.
DISCONTINUED										
SEE W-100-Y										
8/25/48										
Yield										

Standard Formula, Not to be taken from File.

GLD060426

Characteristics and Method of Using		Cost Data				Customers
Type of Goods						
Color						
Luster						
Match for						
Kind of Reducer		Turpentine		64.2	%	
Amount of Reduction for		Vehicle		35.8		
Brushing				100.0	%	All plants 2-13-47
Spraying	Pressure					
Dipping	Drip Time	Analysis				
Flocoing	Drip Time	Turpentine				
Tumbling		Carbonate White Lead				9.2 %
Air dry to recoat		35% Leaded Zinc Oxide				43.7
To Sand or Rub		Titanium Magnesium				29.3
Bake Time	Temp.	Titanium Pigment				17.1
Rub with		Magnesium Silicate				10.5
Polish with						100.0 %
Schedule		Vehicle				
		Raw Linseed Oil				35.7 %
		Bodied Linseed Oil				33.6
		Japan Drier				6.1
		Mineral Spirits				24.6
						100.0 %

GLD060427

430-O 50M 10-46 PRINTED IN U.S.A. (81)

FORMULA RECORD

Goods [illegible] Formula No. [illegible]

Consistency [illegible] Date [illegible] Laboratory No.

For Use on Cost Classification

Code Number	One Gallon Batch			Gallon Batch			Gallon Batch			Manufacturing Specificatio
	Pints	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	Gals.	Lbs.	Ozs.	
[illegible]		[illegible]						[illegible]		Grind
[illegible]		[illegible]						[illegible]		Kind of Mill
[illegible]		[illegible]						[illegible]		Strainer
[illegible]										Weight per Gallon
[illegible]		[illegible]						[illegible]		Light Baume Temp.
[illegible]		[illegible]						[illegible]		Heavy Baume Temp.
										Viscosity Temp.
[illegible]	[illegible]						[illegible]			Viscosimeter
[illegible]	[illegible]						[illegible]			Flash Point
[illegible]	[illegible]						[illegible]			Is Agitator Required
[illegible]	[illegible]						[illegible]			Remarks
[illegible]	[illegible]						[illegible]			
[illegible]	[illegible]						[illegible]			
[illegible]	[illegible]						[illegible]	[illegible]	[illegible]	[illegible]
Yield								[illegible]		

Stamp: Not to be used from this date

DISCONTINUED
SEE 2/1806 K
8/23/46

GLD060428

130-D 50M 4-46 PRINTED IN U. S. A. (B)

FORMULA RECORD

Alternate

Goods Endurance O.W. House Pt. Formula No. Y-1800 X

Consistency Date 5-29-47 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-91		1	9½					127½		Grind
10% Leaded Linc Oxide		4	5					345		Kind of Mill
W-11		3	13					305		Strainer
W-10		1	4					100		Weight per Gallon 14½ #
W-104		1	11					135		Light Baume Temp.
										Heavy Baume Temp.
										Viscosity 76 K.U. Temp.
0-5	1						10			Viscosimeter
0-1	1 3/4						17½			Flash Point
0-286	2½						25			Is Agitator Required
S-43	1 5/16						5			Remarks
S-148	½						5 5/8			H-E-H
D-15	3/16									
DISCONTINUED For Cleveland Only										Standard Formula Not to be taken from File.
SEE Y-1800 E 8/25/48										
Yield										

GLD060429

430-E (6M 5-48 PRINTED IN U.S.A. (9)

FORMULA RECORD

Goods White Cadmium Free Paint — Formula No. Y-1800X

Consistency Regular — Laboratory No.

For use on ? — Cost Class. — Date 12-5-49

Customer — Strainer ? — Grind 1-2

Mill Pebble

Code Number	One Gallon Batch: Pints	Lbs.	Ozs.	Large Batch: Gals.	Lbs.
W-91		1	9 1/2		187 1/2
W-6		6			480
W-11		3	13		305
W-10		1	4		100
O-1	3			30	
O-28	1 1/2			15	
O-5	1			10	
V-15	3/4			5 5/8	
S-43	1 1/2			15 3/8	

Is agitator required

Wt. or Be 14.5 Temp.

Viscosity 85-90" Temp.

Viscosimeter

Color Sheen

Non Vol. Flash Pt. 105 F

Watch for

Reducer

Amt. for brushing

Spraying Tumbling

Dipping Drip-time

Bake Temp.

This replaces the formula Y-1800X dated 11-20-1946

Air dries in Overnite

A. D. to recoat in 3 days

Remarks: 1

Standard Formula. Not to be taken from File

Standard Formula Active ✓ Discontinued

See Y-1800X-3/22/49 Formulator

O-1 = 5.2 %

O-28 = 2.7 %

V-15 = 18.1 %

Yield

GLD060430

A20-E 5GM 4-48 PRINTED IN U.S.A. AP

FORMULA RECORD

Goods White Endurance Paint — Formula No. Y-1800-X

Consistency Liquid — Laboratory No.

For use on — Cost Class. — Date 3/22/49

Customer — Strainer — Grind 1-2

Mill Pebble

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-91		1	9-1/2		127-1/2
W-6		6			480
W-12		5	1		405
O-1	2-7/16			24-3/8	
O-5	1-5/16			13-1/8	
O-286	1-7/8			18-3/4	
S-45	1-3/4			17-1/2	
D-15	5/8			6-1/4	

Use this formula instead of card dated 8/25/48

Standard Formula
Active
Discontinued 2-24-50
See Y-1800 Temp

Yield

Is agitator required

Wt. or Be 14.5 #/gal Temp.

Viscosity 85-90 KU Temp

Viscosimeter Stormer

Color White Sheen

Non Vol. Flash Pt. 105 F

Match for

Reducer

Amt. for brushing

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in Overnite

A. D. to recoat in 3 days

Remarks:

Formulator H G Hayward

GLD060431

4B9F 7/54 4-49 Printed in U.S.A. L.P.

FORMULA RECORD

Goods #413 White Endurance House Paint — Formula No. Y-1800-X

Consistency Liquid — Laboratory No.

For use on — Cost Class. — Date 7/26/49

Customer — Strainer — Grind 2

Mill Pebble — Wt. or Be 14.5#

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-91		1	9-1/2		127-1/2
W-6		6			480
W-11		3	13		305
W-10		1	4		100
O-1	2-7/16			24-3/8	
O-5	1-5/16			13-1/8	
O-286	1-7/8			18-3/4	
S-43	1-3/4			17-1/2	
D-15	5/8			6-1/4	
O-103			1/4 oz/gal.		
#Special M-25 oil from Spencer Kellogg			2 oz/gal.		
Add to the O-1 before putting oil in the mill To adjust body					
Replaces previous Y-1800-X dated 3/22/49 to obtain proper package viscosity					
Yield					

Is agitator required

Wt. 14.5# Temp.

Viscosity 85-90 Temp. KU

Viscosimeter Stormer

Color Sheen

Non Vol. Flash Pt.

Match for White

Reducer

Ant. for brushing Acid No.

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in 0 hrs. or 10 hrs.

A. D. to recoat in 5 days

Remarks: This is used only with low acid O-1 to adjust Acid No. To that of our Std.

Formulator H G Hayward

Standard Formula Active

Discontinued

GLD060432

1480X 10M 4-49 Printed in U.S.A. I.L.P.

FORMULA RECORD

Goods White Endurance Paint — Formula No. Y-1800-X Temp.

Consistency Liquid — Laboratory No.

For use on — Cost Class. — Date 8/19/49

Customer — Strainer — Grind 1-2

Mill Pebble — Wt. or Bo 14.6#

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-91		1	9-1/2		127-1/2
W-35		4	5-1/2		347-1/2
W-1		1	10-1/2		132-1/2
W-11		3	13		306
W-10		1	4		100
O-1	2-7/16			24-3/8	
O-6	1-5/16			13-1/8	
O-286	1-7/8			18-3/4	
S-43	1-3/4			17-1/2	
D-15	5/8			6-1/4	
* O-183			1/4 Loz/gal		
** Special M-25 Oil			2 " "		
Spencer Kellog					

Is agitator required — Wt. 14.6# — Temp.

Viscosity 85-90 — Temp. KU

Viscosimeter Stormer

Color White — Sheen

Non Vol. — Flash Pt.

Match for

Reducer

Mfr. for brushing

Spraying — Tumbling

Dipping — Dris time

Bake — Temp.

SEE REVISED

Air dries in Overnite

A. D. to recoat in 3 days

Remarks:

H.G.H.

AUG 29 1949

Formulator W C Hayward

I.L.W.

* Add to the O-1 before putting O-183 in mill

** Added to improve and adjust body
Formula to be used when W-6 is not available

Yield.

GLD060433

GLIDDEN 4614 PRINTED IN U.S.A. 12-50

FORMULA RECORD

GOODS Glidden Endurance White House Paint

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

FORMULA NO. Y-1800-X

LABORATORY NO. TEMP.

COST CLASS. DATE 1/24/51

STRAINER GRIND 2-3

MILL Pebble or WT. OR BE 14.5#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
O-1	4-1/8			41-1/4		
O-286	1-1/2			15		
S-43	1-3/4			17-1/2		
D-15	5/8			6-1/4		
* O-525			(2 Loz. /gal.)	1-1/4		
W-91		1	6		110	
W-6		6			480	
W-11		3	15		315	
W-10		1	5		105	
	* TO ADJUST BODY					

Standard Formula. Not to be taken from File.

To conserve W-91

DISCONTINUED SEE

Hy-H-Speed

VISC. F.B. 85-90 KU TEMP. 80° F.

VISC. RED. TEMP.

VISCOSIMETER Krebs Stormer

COLOR White SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER

AMT. FOR BRUSHING Full Body

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN

A. B. TO RECOAT IN

REMARKS: Standard Formula. Not to be taken from File.

FORMULATOR H.G. Hayward

YIELD 19

GLD060434

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

FORMULA RECORD

GOS Maintenance White House Paint — FORMULA NO. Y-1800-Y

CONSISTENCY Liquid — LABORATORY NO.

FOR USE ON — COST CLASS. — DATE 5-16-51

CUSTOMER — STRAINER — GRIND 2-3

MILL P.W. orBiR WT. OR BE 14.5#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Y-91		1	6		110	
Y-6		6			480	
Y-11		3	15		315	
Y-10		1	5		105	
Y 0-1	2 7/8			28 3/4		
0-5	1 1/4			12 1/2		
0-286	3/4			7 1/2		
VR-49098	3/4			7 1/2		
S-43	1 3/4			17 1/2		
D-15	5/8			6 1/4		
*0325			2 liq. oz./gal.			
* To adjust body.						
Formula to be used when soya oil cheaper than linseed						
YIELD						

IS AGITATOR REQUIRED

VISC. F.B. 85-90KU TEMP. 80°F

VISC. RED. TEMP.

VISCOSIMETER Krebs Stormer

COLOR White SHEEN

NON VOL. FLASH PT. 100%

MATCH FOR

REDUCER

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 18 hrs

A. D. TO RECOAT IN 72 hours

REMARKS:

Standard Formula
Not to be taken
from file

FORMULATOR H.G.H.

GLD060435

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-X
		PIGMENT 62.5 %		
		VEHICLE 37.5 %		Endurance House Paint
		100.0%		
				6/19/51
		PIGMENT		
		Titanium Oxide	10.9%	
		35% Leaded Zinc	47.5	all plants 7-5-51
		Magnesium Silicate	31.2	
		Barium Sulphate	10.4	
			100.0%	
		VEHICLE		
		Linseed Oil	47.2%	
		Treated Soya Oil	26.2%	
		Mineral Spirits	19.0%	
		Liquid Drier	% 7.6	
			100.0%	

GLD060436

GLIDDEN-ACME, PRINTED IN U.S.A. 7/50

FORMULA RECORD

GOODS Glidden Endurance House Paint-White

FORMULA NO. Y-1800-X-1

CONSISTENCY

LABORATORY NO.

FOR USE ON

COST CLASS DATE 9/18/51

CUSTOMER STRAINER GRIND 2-3

MILL Pebble OR WT. OR BE 14.6#

DESCRIPTION REQUIRED P1-R1

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	100 LARGE BATCH GALS.	LBS.	OZS.
W-97		1	9-1/2		127-1/2	
W-6		6			480	
W-11		3	13		305	
W-30		1	4		100	
O-1	4-1/8			41-1/4		
O-286	1-1/2			15		
S-43	1-3/4			17-1/2		
D-15	5/8			6-1/4		
* O-325			2/gal	1-1/4		

* To adjust body.

Formula to be used when linseed is cheaper than soya.

YIELD 106

VISC. F 85-90 KU TEMP. 80°F

VISC. REQ. TEMP.

VISCOSIMETER Krebs Stormer

COLOR White SHEEN

WT/GAL. FLASH PT. 100°F

THICK FOR

REDUCER

THIN FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 18 hours

A. D. TO RECOAT IN 72 hours

REMARKS:

FORMULATOR H.G.R.

25-8-4

Standard Formula Not to be taken from File

GLD060437

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-X-1
		PIGMENT 62.5 %		
		VEHICLE 37.5 %		Glidden 9/18/51
		100.0 %		Endurance House Paint
				White
		PIGMENT		
		Titanium Oxide	12.6%	Forest City
		35% Leaded Zinc Oxide	47.4	
		Barium Sulphate	9.9	All Plants 9-21-51
		Magnesium Silicate	30.1	
			100.0 %	
		VEHICLE		
		Linseed Oil	53.0%	
		Treated Linseed Oil	20.3	
		Mineral Spirits	19.2	
		Liquid Drier	7.5	
			100.0 %	
		Y-1800	159	

GLD060438

FORMULA RECORD

GOODS Glidden Endurance House Paint-White

FORMULA NO. Y-1800-X-2

CONSISTENCY

LABORATORY NO.

FOR USE ON

COST CLASS. DATE 9/18/51

CUSTOMER

STRAINER GRIND 2-3

MILL (Pebble or WT. OR SE 14.6#

XXXXXXXXXXXXXXXXXXXX Hi-R)

VISC. F.D 85-90 KU TEMP. 80°F

VISC. REQ. TEMP.

VISCOSIMETER Krebs Stormer

COLOR White SHEEN

NON VOL. FLASH PT. 100°F

MATCH FOR

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	100 GALS.	LARGE BATCH LBS.	OZS.
W-92		1	9-1/2		127-1/2	
W-6		6			480	
W-11		3	13		305	
W-10		1	4		100	
O-1	2-7/8			28-3/4		
O-5	1-1/4			12-1/2		
O-286	3/4			7-1/2		
*VR-49098	3/4			7-1/2		
S-43	1-3/4			17-1/2		
D-15	5/8			6-1/4		
** O-325			2/gal	1-1/4		

Standard Formula. Not to be taken from File.

REDUCER

WT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 18 hours

A. D. TO RECOAT IN 72 hours

REMARKS:

** To adjust body.

* When not available use O-315.

Formula to be used when soya is cheaper than linseed.

FORMULATOR H.G.H.

YIELD 106

25-9-4

GLD060439

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-X-2
				9/18/51
		PIGMENT 62.5 %		
		VEHICLE 37.5 %		
		100.0 %		Glidden
				Endurance House Paint
				White
		PIGMENT		
		Titanium Oxide	12.6%	
		35% Leaded Zinc Oxide	47.4	Forest City
		Barium Sulphate	9.9	All Plants 9-21-51
		Magnesium Silicate	30.1	
			100.0 %	
		VEHICLE		
		Linseed Oil	47.2%	
		Treated Soya Oil	26.2	
		Mineral Spirits	19.0	
		Liquid Drier	7.6	
			100.0%	
		Y-1800	159	

GLD060440

GLIDDEN SCCA THE GLIDDEN CO. CLEVE.

FORMULA RECORD

Glidden Endurance House Paint - White

FORMULA NO. Y-1800-X - 3.

BOCOS Liquid

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 5/19/52

FOR USE ON

STRAINER GRIND

CUSTOMER

MILL Pebble or- WT. OR BE 14.6

IS ~~XXXXXXXXXXXX~~ Hi-R)

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	4-1/2		102-1/2	
W-170			5		25	
W-6		6			480	
W-11		3	13		305	
W-10		1	4		100	
CH-185			1		5	
O-1	2-7/8			28-3/4		
O-5	1-1/4			12-1/2		
O-286	3/4			7-1/2		
*VR-49098	3/4			7-1/2		
S-43	1-3/4			17-1/2		
D-15	5/8			6-1/4		
S-14			1	5/8		
** O-325			2	1-1/4		

VISC.F.B. 85-90 KUse. 80°

VISC. REQ. #4 Ford Cup 110-120 TEMP. 80°

VISCOSIMETER Stormer

COLOR White SHEEN

NON VOL. FLASH PT. 100°F

MATCH FOR

REDUCER

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 18 hrs.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

Standard Formula Not to be taken from File

* When not available use O-315.

** To adjust body.

YIELD Replacing 20% of W-91 with W-170.

FORMULATOR H.G.H. H.Homan

25-8-4

GLD060441

COST	DATE	ANALYSIS		CUSTOMERS
				~~Y-1800-X-3~~
		PIGMENT 62.5	%	Glidden 5/19/58
		VEHICLE 37.5	%	Endurance House Pt.
		100.0	%	White
		PIGMENT		Forest City
		Titanium Oxide	12.6%	All Plants 6-6-52
		35% Leaded Zinc Oxide	47.4	
		Barium Sulphate	9.9	Spec. Cabinet 1-15-53
		Magnesium Silicate	30.1	Add T. 6.
			100.0 %	
		VEHICLE		
		Linseed Oil	47.2%	
		Treated Soya Oil	26.2	
		Mineral Spirits	19.0	
		Liquid Drier	7.6	
			100.0 %	
		Y-1800	255	

GLD060442

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

FORMULA RECORD

FORMULA NO. Y-1800-X-4

GOODS Glidden Endurance House Paint-White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS. DATE 2/13/53

FOR USE ON

STRAINER GRIND 2-3

CUSTOMER

MILL Pebble or WT. OR BE. 14.6

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5		10.5	
W-170			10		50	
W-6		6			11.0	
W-10		1			6	
W-11		3	12		30.0	
CH-185			1		5	
O-1	3-5/16			33½		
O-5	1-1/4			Standard Formula + Mix to be taken		
O-286	3/4			13½ from File.		
VR-49098	3/4			6¼		
S-43	1-5/16					
D-15	5/8					
S-14			1		1.0	
** O-325			2		1.0	

DISCONTINUED SEE

* When not available use O-315

** Hold to adjust body.

YIELD

REDUCER S-43

AIR (FOR BRUSHING)

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 18 hrs.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

Ref. Lab. 7837, Lard
4.76 Hop Pale
3.5 PVC

FORMULATOR Homans

25-8-4

GLD060443

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

FORMULA RECORD

FORMULA NO. Y-1800-X-5 New or Rev

GOODS Glidden Endurance House Paint-White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS. DATE 8/3/53

FOR USE ON

STRAINER GRIND 2-3

CUSTOMER

MILL Pebble or WT. OR BE 14.6

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5		105	
W-170			10		50	
W-6		6			480	
W-10		1			80	
W-188		3	12		300	
CH-185			1		5	
O-1	3-5/16			33-1/8		
O-5	1-1/4			12-1/2		
O-286	3/4			7-1/2		
#O-398	3/4			7-1/2		
S-43	1-5/16			13-1/8		
D-15	5/8			6-1/4		
S-14			1			80
** O-325			2			160

DISCONTINUED SEE

* When not available use O-315

** Hold to adjust body.

YIELD 1.39 Gal.

IS AGITATOR REQUIRED Hi-R

VISC. F.B. 85-90 KU TEMP.

VISC. ~~KU~~ 110-150 TEMP.

VISCOSIMETER Stormer & #4 F.

COLOR White SHEEN

NON VOL. FLASH PT. 100°

MATCH FOR

REDUCER S-45

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 18 hrs.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

Standard Formula. Not to be taken from File

FORMULATOR Homans

27-6

GLD060444

GLIDDEN 460-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Glidden Endurance House Paint - White
CONSISTENCY: Liquid
FOR USE ON:
CUSTOMER:

FORMULA NO. Y-1800-X-6
LABORATORY NO.
COST CLASS. DATE 11/24/53
STRAINER GRIND 2-3
MILL Pebble WT. OR SP. 14.9

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5			
W-170			10			
W-6		6				
W-10			10			
W-188		4				
CH-185			1			
O-1	2-13/16					
O-9	1/2					
O-5	1-1/4					
O-286	3/4					
O-398	3/4					
S-43	1-13/16					
VM-432	1/8					
VM-433			1/4 Loz.			
* O-325			1 Oz/gal.			

* Hold to adjust body.

DISCONTINUED
SEE Y-1800-X-6
2-N-54

Standard Formula Not to be taken from File.

NOTE: formula changed to improve color & gloss.

YIELD 1.374 Gal.

IS AGITATOR REQUIRED
VISC. F.B. 85-90 KU TEMP. 80°
VISC. #2 110" min. TEMP. 80°
VISCOSIMETER K.Stormer & #4 F.C.
COLOR White SHEEN
NON VO. FLASH PT.
MATCH FOR
REDUCER S-43
AMT. FOR BRUSHING
SPRAYING TUMBLING
DIPPING DRIP TIME
BAKE TEMP.
AIR DRIES IN Overnight
A. D. TO RECOAT IN 72 hrs.
REMARKS:

FORMULATOR Southwick
28-8-8

GLD060445

GLIDDEN 880-M PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-X-6

GOODS Glidden Endurance House Paint - White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS. DATE 12/14/53

FOR USE ON STRAINER GRIND 3-4

CUSTOMER MILL Pebble or WT. OR SE 14.9

HI-R

VISC. F.B. 85-90 KU TEMP. 80°

VISC. RED. 110" min TEMP. 80°

VISCOSIMETER Stormer & #4 F.C.

COLOR White SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5			
W-170 W-202			10			
W-6		6				
W-10			10			
W-188		4				
CB-185			1			
O-1	2-13/16					
O-9	1/2					
O-5	1-1/4					
O-286	3/4					
O-398	3/4					
S-43	1-13/16					
VM-432	1/8					
VM-433			1/4	Loz.		
* O-33			1/4	Loz.		
	* Hold to adjust body.					
YIELD	1.37 Gal.					

Standard Formula. Not to be taken from File.

ANT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP

AIR DRIES IN Overnight

A. B. TO RECOAT IN 72 hrs.

REMARKS:

** Reissued to call for better grind. DESTROY card dated 11/24/53.

FORMULATOR J. Southwick

28-8

GLD060446

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT 62.3 %		Gill Plants Labs Ltd 12-16-55
		VEHICLE 37.7 %		Montreal St Paul (Ltd) 12-16-55
			100.0 %	
				Sarnia (Hargog-Fine Chem) 7-28-56
		PIGMENT		Chile 11-20-56
		Titanium Oxide	15.4	
		35% Leaded Zinc Oxide	47.8	Bone 3-29-56
		Barium Sulphate	5.0	Bromley (Chile) 5-16-56
		Magnesium Silicate	31.8	Columbia 2-16-56
			100.0 %	Ecuador 2-16-57
				Joe Pierson 2-27-57
				Dyes 6-19-57
				Dyes 7-15-57
		VEHICLE		
		Linseed Oil	52.5	
		Treated Soya Oil	26.0	
		Mineral Spirits & Driers	21.5	
			100.0 %	

GLD060447

GLIDDEN 480-9 PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-X-6

GOODS Glidden Endurance House Paint - White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS. DATE 11/5/57

FOR USE ON

STRAINER GRIND 3-4

CUSTOMER

MILL Pebble or WT. OR BE 14.9

IS AGITATOR REQUIRED ~~XXXXXXXX~~ Hi-R

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5			
W-208			10			
W-6		6				
W-10			10			
W-188		4				
CH-185			1			
O-1	2-13/16					
O-9	1/2					
O-5	1-1/4					
O-286	3/4					
O-398	3/4					
S-43	1-13/16					
VM-432	1/8					
VM-433			1/4 Loz.			
*O-325			1/4 Loz.			
*Hold to adjust body.						
YIELD	1.37 Gal.					

Standard Formula Do Not Take From File

VISC. F.B. 85-90 KU TEMP. 80°

VISC. RED. 110" min TEMP. 80°

VISCOSIMETER Stormer & #4 F.C.

COLOR White SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER 8-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hrs.

REMARKS:

**Released formula 12-14-53 to use Glidden W-208.

FORMULATOR J. Southwick 28-8

GLD060448

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-X-6
		PIGMENT 62.3 %		Endurance House Paint - White
		VEHICLE 37.7 %		
		100.0 %		
				Y Trade Sales Co 11/5/57
				List 11-12-57
		PIGMENT		
		Titanium Oxide	15.4	
		65% Lauded Zinc Oxide	47.8	
		Barium Sulphate	5.0	
		Magnesium Silicate	31.8	
			100.0 %	
		VEHICLE		
		Linseed Oil	52.5	
		Treated Soya Oil	26.0	
		Mineral Spirits & Driers	21.5	
			100.0 %	

GLD060449

GLIDDEN "KEM-TONE" PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Endurance House Paint - White
CONSISTENCY:
FOR USE ON: No. 3
CUSTOMER:

FORMULA NO. Y-1800-X-7
LABORATORY NO.
COST CLASS. DATE 12/11/57
STRAINER GRIND 2-3
MILL Pebble Or WT. OR SE 14.6#
IS AGITATOR REQUIRED? XXX Hi-R
VISC. F.B. 85-90 KU TEMP.
VISC. RED. TEMP.
VISCOSIMETER Stormer
COLOR SHEEN Gloss
NON VOL. FLASH PT.
MATCH FOR
REDUCER S-43
WT. FOR BRUSHING
SPRAYING TUMBLING
BAKING DRIP TIME
BAKE TEMP.
AIR DRIES IN O.N.
A. D. TO RECOAT IN 72 hrs.
REMARKS:

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5		94.5	
W-208			10-1/2		47	
W-35		4	6		314	
W-1		1	10		126	
W-188		4	7		320	
CH-185			1		4.5	
O-1	2-13/16			25.3		
O-5	1-1/4			11.2		
O-9	1/2			4.5		
O-286	3/4			6.75		
O-398	3/4			6.75		
S-43	1-15/16			17.4		
TM-432			2 Loz	1.1		
TM-433			1/4 Loz			18 Loz
M-455			1/8 Loz			18 Loz
		2-2-3-1				
YIELD	1.39			100		

Standard Formula
Not to be taken
from File.

FORMULATOR J.E. Southwick
28-9-9

GLD060450

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-X-7
		PIGMENT 62	%	Endurance House Paint
		VEHICLE 38	%	White
		100 %		12/11/57
		PIGMENT		"Y" Trade Sales
		Titanium Dioxide	15.6%	Enamel Lot 12-23-57
		35% Leaded Zinc Oxide	48.8	
		Magnesium Silicate	35.6	Portland-Ver -
			100.0%	Penn. 6-18-58
				Chile 6-19-58
				Colombia 6-25-58
				Peru-Ecuador 7-16-58
				West Indies 11-24-58
		VEHICLE		Olympic (C) 6-18-59
		Linseed Oil	52%	
		Treated Soya Oil	25%	Glidden 7-30-59
		Mineral Spirits & Driers	23%	~~Baltimore 8-24-59~~
			100%	
		Y-1800 7512		

GLD060451

GLIDDEN 425-A PRINTED IN U.S.A. 7/57

FORMULA RECORD

FORMULA NO. Y-1800-X-7

GOODS Endurance House Paint - White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE** 12/11/57

FOR USE ON

STRAINER GRIND 2-3

CUSTOMER No. 4 Label Warning No. 4 Label Warning MILL Pebble or WT. OR BE 14 6#

IS AGITATOR REQUIRED Hi-R

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91		1	5		94.5	
W-200			10-1/2		47	
W-35		4	6		314	
W-1		1	10		126	
W-188		4	7		320	
CH-185			1		4.5	
O-1	2-13/16			25.3		
O-5 or O-265	1-1/4			11.2		
O-9	1/2			4.5		
O-286	3/4			6.75		
O-398	3/4			6.75		
S-43	1-15/16			17.4		
~~VM-452~~			2 Loz	1.1		
VM-433			1/4 Loz.			18 Loz.
M-455			1/4 Loz.			18 Loz.
YIELD	1.39			100		

VISC. F.B. 85-90 KU@F.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

ADJ. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

**Released 12/14/59.

Standard Formula. Not to be taken from File.

FORMULATOR Southwick

30-12

GLD060452

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-X-7
		PIGMENT 62 %		Endurance House Paint
		VEHICLE 38 %		White
		100 %		12/11/57
		PIGMENT		
		Titanium Dioxide	35.6	No. 4 Label Warning
		35% Leaded Zinc Oxide	38.8	
		Magnesium Silicate	25.6	No change in analysis.
			100.0	
				Y Enamel Lab 12-17-5
				Marchi (Portland) 12-17-5
				Panama (USA) 3-14-60
		VEHICLE		Chile 2-12-60
		Linseed Oil	52%	Columbia "
		Treated Soya Oil	25%	Cuba "
		Mineral Spirits & Driers	23%	Ecuador "
			100%	Puerto Rico "
				Peru "
				Mexico Indus 2-12-60
				Gulf Uruguay 2-18-60
				J Rubin (C) 8-26-60
				D.L.P. Mexico 9-16-60
				F Brant 10-7-60
		Y-1800 7521		

GLD060453

GLIDDEN 480-K PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-A

GOODS Endurance House Paint - White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 4/7/61

FOR USE ON

STRAINER GRIND 3-4

CUSTOMER More than 1% Lead

MILL Pebble WT. OR SE 14.0#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91				(2.93)	95	
W-208				(1.46)	50	
W-249				(6.95)	330	
W-188				(16.30)	385	
CH-185				(.53)	5	
O-1				35.0	(272.0)	
O-9				5.0	(39.5)	
O-286				14.0	(112.0)	
S-43				16.6	(108.0)	
VM-432				1.1	(10.5)	
VM-433				.14	(1.1)	
M-455				.14	(1.0)	
YIELD				100.1	1409	

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC.F.B. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

MAT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 72 hrs.

REMARKS: Changed to use W-249 and to replace Soya Oil.
82.2% by volume
34% P.V.C.

FORMULATOR J. E. Southwick

GLD060454

COST	DATE	ANALYSIS	CUSTOMERS Y-1800
		PIGMENT 61.0 %	Endurance House Paint - Whi
		VEHICLE 39.0 %	
		100.00	
			4/7/61
		PIGMENT	
		Titanium Dioxide 16.5	
		Magnesium Silicate 44.8	
		10% Monobasic Leaded-Zinc Oxide 38.7	No. 4 Lebal Warning
		100.0	
			Y-1800-1-2-3-4-5-10-20
		VEHICLE	
		Linseed Oil 77.2	
		Mineral Spirits & Driers 22.8	
		100.0	
		Y-1800 164	

GLD060455

FORMULA RECORD

FORMULA NO. V-1800-A (Linseed)

GOODS Endurance House Paint - White

LABORAT When Linseed Is Cheap-

CONSISTENCY

COST CLASS. DATE er

FOR USE ON

STRAINER GRIND 3-4

CUSTOMER More than 1% Lead

MILL Pebble WT. OR BE 14.0#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91				(2.93)	95	
W-208				(1.46)	50	
W-249				(6.95)	330	
W-188				(16.30)	385	
CH-185				(.53)	5	
O-1				35.0	(272.0)	
O-9				5.0	(39.5)	
C-286				14.0	(112.0)	
S-43				16.6	(108.0)	
VM-432				1.1	(10.5)	
VM-433				.14	(1.1)	
M-455				.14	(1.0)	
YIELD				100.15	1409	

Standard Formula, Not to be taken from File.

DISCONTINUED

SEE V-1800-B

IS AGITATOR REQUIRED

VISC. F.B 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON-VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. O. TO RECOAT IN 72 hrs.

REMARKS:

82.2% by Volume

34% P.V.C.

FORMULATOR J. E. Southwick

GLD060456

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-A
		PIGMENT 61.0 %		Endurance House Paint - White
		VEHICLE 39.0 %		
		100.0%		
				4/7/61
		PIGMENT		
		Titanium Dioxide	16.9	
		Magnesium Silicate	44.8	12-13-61
		16% Monobasic Leaded-Zinc Oxide	38.3	No. 2 Label Varnish
			100.0%	
				No change in analysis
				Enamel Lac (Short
				1-2-4-5-12-14-8) 11-17-6
		VEHICLE		9/25/61 (3)
		Linseed Oil	77.2	
		Mineral Spirits & Driers	22.8	Babcock Co. 9/25/61 (3)
			100.0%	Green " " "
				Mango " " "
				Northwood " " "
				Goldthwaite " " "
				Isabella " " "
				Sik Japan 3-16-62 (1)
		Y-1800 164		

GLD060457

GLIDDEN 683-2 PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-A (Soya)

GOODS Endurance House Paint - White

LABORATORY When Soya Is Cheaper

CONSISTENCY

COST CLASS. DATE 4/7/61

FOR USE ON

STRAINER GRIND 3-4

CUSTOMER More than 1% Lead

MILL Pebble or WT. OR BE 14.0

IS AGITATOR ~~Kenics~~ H1-R

VISC. F.S. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

WT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

82.2% N.V. by volume
34% PVC

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-91				(2.93)	95	
W-208				(1.46)	50	
W-249				(6.95)	330	
W-188				(16.30)	385	
CH-185				(.53)	5	
O-1				25.0	(194.2)	
O-5 or O-265				10.0	(77.8)	
O-9				5.0	(39.5)	
O-398 or O-315				7.0	(56.0)	
O-286				7.0	(56.0)	
S-43				16.6	(108.0)	
VM-432				1.1	(10.5)	
VM-433				.14	(1.1)	
M-455				.14	(1.0)	
YIELD				100.1	1409	

Standard Formula. Not to be taken from File.

GLD060458

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	Enamel List Flat
		VEHICLE %	1-2-4-5-12-14-8-11-17-16
			9/25/61 (3)
		PIGMENT	Green 9/25/61 (3)
			Babcock " "
			Haynes " "
			Ledbetter " "
			Hayward " "
			Lauchnick " "
		VEHICLE	

GLD060459

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

FORMULA RECORD BASE

GOODS: Endurance House Paint - White

CONSISTENCY:

FOR USE ON:

CUSTOMER: More than 1% Lead

FORMULA NO. V-1800-A (Cowles-Morehouse)

LABORATORY NO.

COST CLASS. DATE 4/17/61

STRAINER GRIND 3-4

MILL Cowles-More- WT. OR BE 14#

AGITATOR Morehouse

VISC. F.A. 85-90 KU TEMP.

VISC. AFD. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCHED

REDUCED S-43

AIR FOR BRUSHING F.R.

SPRAYING TUMBLING

DRIPS DRIP TIME

BAKE TEMP.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
O-286				14	(112.0)	
O-9				5	(39.5)	
O-1				25	(194.2)	
CR-185				(0.53)	5.0	
V-188				(16.3)	385.0	
S-208				(1.48)	50.0	
M-91				(2.93)	95.0	
W-249				(6.88)	327.0	
Mix to 3-4 grind* and add:						
O-1				10	(77.8)	
Morehouse to clean 3-4 grind:						
S-43				16.6	(108.0)	
VM-432				1.1	(10.5)	
VM-433 VM-534				0.14	(1.1)	
M-455				0.14	(1.0)	
YIELD				100.08	1405	

*Grind need not be clean at this point.

DISCONTINUED

SEE V-1800-B

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hrs.

REMARKS:

72.1% Mill base
82.2% NV by volume
91.4% NV by weight
34% P.V.C.

FORMULATOR J. L. Southwick

from file

GLD060460

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	Hess (Texas) 8-30-61 @
		VEHICLE %	
		PIGMENT	14-62 NPVA 12/12/61
			No Analysis Furnished
			See Y Enamel List 9-26-61 @
			Plants # 1-2-4-5-8-12-14-17
		VEHICLE	

GLD060461

© 10877 488-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-B (Cowles-

GOODS Endurance House Paint - White — LABORATORY NO. Morehouse)

CONSISTENCY — COST CLASS. — DATE 12/5/62

FOR USE OKX Mfg. at plants #1-2-4-5-8-11-12-14-15-16-17 — STRAINER — GRIND 3-4

CUSTOMER XXX Reissued to use Tallates — MILL Cowles- — WT. OR BE 14#

IS AGITATOR REQUIRED Morehouse

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
O-286				14.0	(112.0)	
O-9	Standard formula.			5.0	(39.5)	
O-1	Not to be taken			25.0	(194.2)	
CH-185	from File.			(0.53)	5.0	
W-188				(16.3)	385.0	
W-208				(1.46)	50.0	
W-91				(2.93)	95.0	
W-249				(6.88)	327.0	
Mix to 3-4 grind and add:						
O-1				10.00	(77.8)	
Morehouse to clean 3-4 grind:						
S-43				16.6	(108.0)	
VM-432				1.1	(10.5)	
VM-534				0.14	(1.1)	
M-455				0.14	(1.0)	
Grind need not be clean at this point.						
YIELD				100.08	1466	

DISCONTINUED 5-64

VISC. F.S. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

APPLICATION FOR BRUSHING F.E.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hrs.

REMARKS:

Mill Base	72.1%
NV by Volume	82.2%
NV by Weight	91.4%
PVC	34.0%

FORMULATOR J. E. Southwick

GLD060462

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-B
		PIGMENT 61.0 %		Endurance House Paint - White
		VEHICLE 39.0 %		
		100.0%		
				12/5/62
		PIGMENT		
		Titanium Dioxide	16.9%	Warning No. 14-62 NPVLA
		Magnesium Silicate	44.8	(12/10/62)
		18% Monobasic Leaded-Zinc Oxide	38.3	No change in analysis
			100.0%	
				Y Enamel Lect 2-8-630
				Plants #1-2-4-5-8-12-14-15-16-17
		VEHICLE		
		Linseed Oil	77.2%	
		Mineral Spirits & Driers	22.8	
			100.0%	
		Y-1800	164	

GLD060463

GLIDDEN 4-60-4 PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-B (Linseed

GOODS Endurance House Paint - White

LABORATORY NO. BASE

CONSISTENCY —

COST CLASS. DATE 12/5/62

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

STRAINER GRIND 3-4

CUSTOMER XX Reissued to use Tallates

MILL Pebble WT. OR BE 14.0

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Y-91				(2.93)	55.0	
Y-208				(1.46)	50.0	
Y-249				(6.95)	330.0	
Y-188				(16.30)	385.0	
CH-185				(.53)	5.0	
O-1				35.0	(272.0)	
O-9				5.0	(39.5)	
O-286				14.0	(112.0)	
S-43				16.6	(108.0)	
VM-432				1.1	(10.5)	
VM-534				.14	(1.1)	
M-455				.14	(1.0)	
YIELD				100.15	1469.0	

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

NV by Volume 82.2%

PVC 34%

NV by Wt. 91.4%

FORMULATOR J. E. Southwick

GLD060464

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT [illegible] %	[illegible]
		VEHICLE [illegible] %	
		[illegible]	
		PIGMENT	
		[illegible]	12/5/62
		[illegible]	
		[illegible]	
		[illegible]	Warning No. 14-62 NPVLA
		[illegible]	(12/19/62)
		[illegible]	No changes in analysis
		[illegible]	Y Enamel Lot 2-8-680
		[illegible]	Plant 1-2-4-5-8-12-14-15-16-17
		VEHICLE	
		Linseed Oil [illegible]	Schultz (Form D) per WS 3-12-62
		Mineral Spirits & Driers [illegible]	
		[illegible]	
		[illegible]	

GLD060465

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

FORMULA RECORD

FORMULA NO. Y-1800-G-1 Base

GOODS Endurance-Mildew & Fume Resistant House

LABORATORY NO.

CONSISTENCY Paint - White

COST CLASS

DATE 7/3/63

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

STRAINER

GRIND 3.4

CUSTOMER Less than 1% Lead

MILL Pebble

WT. OR BE 13.3#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				2.11	71.6	
W-91				2.94	98.0	
W-33				5.59	259.8	
W-188				14.50	341.2	
W-218) Premix				0.17	2.5	
S-91)				0.18	1.2	
O-1				37.25	289.2	
O-286				16.67	135.4	
S-43				12.69	82.5	
S-148				3.92	26.5	
VM-523				2.70	21.80	
VM-534				0.21	1.75	
VM-431				0.57	4.30	
VM-659				0.50	4.00	
M-455(Hold) Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1339.75	

IS AGITATOR REQUIRED

VISC. F. B. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL 89.8%(Wt) FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hours.

REMARKS: Changed to use lead free pigments.

NV by Vol. 79.2%

PVC 32.0

FORMULATOR J. E. Southwick

GLD060466

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-C
		PIGMENT 57.8 %		Endurance Mildew & Fung
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				7/3/63
		PIGMENT		
		Titanium Dioxide	22.0%	Warning No. 31-62 NPVLA
		Zinc Oxide	33.7	
		Magnesium Silicate	44.3	
			100.0%	Contains added fungicide to ma
		Guatemala (without) 3-9-64		this paint resistant to the
				action of Mildew Fungi growing
		Manila 3-31-64		in or on the paint.
				RESISTANT TO MILDEW ON THE
		VEHICLE		PAINT FILM ONLY.
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	Di(Phenyl-Mercury)
			100.0%	Dodecenyl Succinate 0.0
				Inert Ingredients 99.9
				100.0
				Y Enamel List 8-6-630
				#1-2-4-5-8-11-12-14-15-16-17
				Panama 8-29-63
		Y-1800	351	West Indies 3-3-64

GLD060467

ALLIANCE INK PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-D-1

GOODS Endurance-Mildew & Fume Resistant House Paint

LABORATORY NO.

CONSISTENCY White

COST CLASS

DATE 4/25/64

FOR USE ON Mfg. Plants #4-8-14-15-16 only.

STRAINER

GRIND 3-4

CUSTOMER Less than 1% Lead

MILL Morehouse

WT. OR BE 13.34

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				2.11	71.60	
W-91				2.94	98.00	
W-33				5.59	259.80	
W-188				14.50	341.20	
W-218) Premix				0.17	2.50	
S-91)				0.18	1.20	
O-1				37.25	289.20	
O-286				16.67	135.40	
S-43				15.50	100.78	
S-148				3.92	26.50	
TM-534				0.17	1.36	
TM-432				0.50	4.82	
TM-659				0.50	4.05	
M-455(Hold) Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1336.41	

IS AGITATOR REQUIRED

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL. 89.8% (Wt.) FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

R. D. TO RECOAT IN 72 hrs.

REMARKS: Changed for lower cost.

NV by Vol. 79.2%

P.V.C. 32.0%

FORMULATOR J. E. Southwick

Standard Not to Exceed

GLD060468

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-D-1
		PIGMENT 57.8 %		Endurance Mildew & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				4/25/64
		PIGMENT		Warning No. 11-62 NAVLA
		Titanium Dioxide	22.0%	
		Zinc Oxide	33.7	
		Magnesium Silicate	44.3	
			100.0%	Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.
		VEHICLE		RESISTANT TO MILDEW ON THE PAINT FILM ONLY.
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers 25.2		Di(Phenyl-Mercury)
			100.0%	Dodecenyl Succinate 0.08
				Inert Ingredients 99.92
				100.00%
		Manufacturing plants #4-8-14-15-16 only.		
				Y Enamel List 4-9-640
				#4-8-14-15-16
				Afco-Southland-Powell-Rode-Mobilpe-
		Y-1800	367	Dress-Rb-4-7-64 Y-1800-1

GLD060469

OLIDDEN 4804 PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-D-2 Mar.

GOODS Endurance Mildew & Fume Resistant House

LABORATORY NO.

CONSISTENCY Paint - White

COST CLASS DAT 4/25/64

FOR USE ON Mfg. Plant #3 ~~copy~~ #2

STRAINER GRIND 3-4

CUSTOMER Less than 1% Lead

MI Morehouse WT. OR BE 13.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				2.11	71.60	
W-51				2.94	98.00	
W-33				5.59	259.80	
W-188				14.50	341.20	
W-218) Premix				0.17	2.50	
S-91)				0.18	1.20	
O-1				37.25	289.20	
O-286				16.67	135.40	
S-43				15.75	103.00	
S-148				3.92	26.50	
~~FM-534~~				0.17	1.36	
~~FM-432~~				0.50	4.82	
~~FM-659~~				0.25	2.02	
M-455 (Hold)Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1336.60	

DISCONTINUED

IS AGITATOR REQUIRED

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL 89.8% (Wt) FLASH F 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

R. D. TO RECOAT IN 72 hrs.

REMARKS: Changed for lower cost.

NV by Vol. 79.2%

PVC 32.0

FORMULATOR J. E. Southwick

GLD060470

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-D-2
		PIGMENT 57.8 %		Endurance - Mildew & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				4/25/64
		PIGMENT		Warning No. 11-62 NPVLA
		Titanium Dioxide	22.0%	
		Zinc Oxide	33.7	Contains added fungicide to make
		Magnesium Silicate	44.3	this paint resistant to the
			100.0%	action of Mildew Fungi growing
				in or on the paint.
				RESISTANT TO MILDEW ON THE
				PAINT FILM ONLY.
		VEHICLE		Di(Phenyl-Mercury)
		Treated Linseed Oil	74.8%	Dodecenyl Succinate 0.04%
		Mineral Spirits & Driers	25.2	Inert Ingredients 99.96%
			100.0%	100.00%
				Y-Enamel Lt 4-9-64 O
				#5 Only
		Manufacturing plant #5 only.		
				Clev.-(Smithwick-Powell-Dixie-Rebs
				Aidalga-Rode) 4-9-64 O
				#2 (per TMS) 4-16-64 O
				Kenosha
		Y-1800	367	Y-1800-E

GLD060471

GLIDDEN ASCH PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-D-3

GOODS Endurance Mildew & Fume Resistant House Paint — LABORATORY NO.

CONSISTENCY White — COST CLASS — DATE 4/25/64

FOR USE ON Mfg. plants #1-#-11-12-17 only. — STRAINER — GRIND 3-4

CUSTOMER Lesss than 1% Lead — MIX Morehouse — WT. OR BE 13.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(2.11)	71.60	
W-91				(2.94)	98.00	
W-83				(5.59)	259.80	
W-188				(14.50)	341.20	
W-218 Premix				(0.17)	2.50	
S-91)				0.18	(1.20)	
O-1				37.25	(289.20)	
O-286				16.67	(135.40)	
S-43				16.00	(104.00)	
S-148				3.92	(26.50)	
VM-534				0.17	(1.36)	
VM-432				0.50	(4.82)	
M-455 (Hold) Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1335.58	

Started Formula Nov. 8 1963

DISCONTINUED

IS AGITATOR REQUIRED

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON V 89.8%(Wt) FLASH F100°F

MATCH FOR

REDUCER S-43

AGT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

LACQUER DRIES IN O.N.

RECOAT TO RECOAT IN 72 hrs.

REMARKS Changed for lower cost.

NV by Vol. 79.2%

PVC 32.0%

FORMULATOR E. Southwick

GLD060472

COST	DATE	ANALYSIS		CUSTOMERS Y-1300-D-3
		PIGMENT 57.8 %		Entrance House Paint - Milden &
		VEHICLE 42.2 %		Fume Resistant - White
		100.0%		4/25/64
		PIGMENT		
		Titanium Dioxide	22.0%	Variable No. 11-C-XXVA
		Zinc Oxide	33.7	
		Magnesium Silicate	44.3	Y Enamel Test 4-9-64 C
			100.0%	Clear (Bowell-Southwick-Rees-Medalyn-Rode) Reboil
				~~Reboil~~ ~~4-10-64~~
				Y-Enamel Test 4-10-64 C
		VEHICLE		#1-2-11-12-17
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	11 C B (Rock) 9-4-64
			100.0%	
		Manufacturing plants #1-2-11-12-17 only.		
		Y-1800 367		Y-1800-3

GLD060473

FLIDDEN 450-N PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-D-1(Cowle

GOODS Endurence - Mildew & Fume Resistant House LABORATORY NO.

CONSISTENCY Paint - White COST CLASS DATE 7/21/64

FOR USE ON SAN FRANCISCO ONLY **Destroy copy dated STRAINER GRIND 3-4

CUSTOMER Less than 1% Lead 7-8-64 MILL Cowles WT. OR BE 13.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				1.45	50.00	
W-280				3.70	120.00	
* W-33				5.54	250.00	
W-188				14.50	341.00	
W-218 Premix				0.17	2.50	
S-91				0.18	1.20	
VM-523				0.13	1.00	
O-1(25.7 gal. in dispersion)				37.25	289.20	
O-286(16.67 " " ")				16.67	135.40	
S-43				15.23	99.00	
S-148				3.92	26.50	
VM-534				0.17	1.36	
VM-432				0.50	4.82	
VM-659				0.50	4.05	
M-486(Hold for viscosity check)				0.14	1.00	
*EP-427-W from Eagle Picher Co.						
YIELD				100.05	1337.03	

Standard Formula Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F. & 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70°Min.

NON VOL. 89.6% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hours

REMARKS: Changed for Cowles dispersion.

Mill Base 68%

NV by Vol. 79.3%

PVC 32%

FORMULATOR J. E. Southwick

GLD060474

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-D-1
		PIGMENT 57.8 %		Endurance Milden & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				7/8/68
		PIGMENT		Warning No. 11-62 NPCA
		Titanium Dioxide	22.0%	
		Zinc Oxide	33.7	No change in analysis
		Magnesium Silicate	44.3	
			100.0%	Contains added fungicide to make
				this paint resistant to the
				action of Mildew Fungi growing
				in or on the paint.
				RESISTANT TO MILDEW ON THE
		VEHICLE		PAINT FILM ONLY.
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	Di(Phenyl-Mercury)
			100.0%	Dodecenyl Succinate 0.08%
				Inert Ingredients 99.92
				100.00%
				#30 7-23-64 (3)
				#14 " "
		Y-1800	367	

GLD060475

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

FORMULA RECORD

FORMULA NO. Y-1800-D-1(Cowles

GOODS Endurance - Milden & Fume Resistant House Paint - White

LABORATORY NO.

CONSISTENCY

COST CLASS DATE 7/8/64

FOR USE ON SAN FRANCISCO ONLY

STRAINER GRIND 3-4

CUSTOMER Less than 1% Lead

MILL Cowles WT. OR BE 13.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(1.45)	50.00	
W-280				(3.70)	120.00	
* W-283				(5.54)	260.00	
W-188				(14.50)	341.00	
W-218 Premix				(0.17)	2.50	
S-91				0.18	(1.20)	
VM-523				0.13	(1.00)	
O-1 (25.7 gal. in dispersion)				37.25	(289.20)	
O-286 (16.67 " ")				16.67	(135.40)	
S-43				15.23	(99.00)	
S-148				3.92	(26.50)	
VM-534				0.17	(1.36)	
VM-432				0.50	(4.82)	
VM-659				0.50	(4.05)	
M-486 (Hold for viscosity check)				0.14	(1.00)	
YIELD				100.05	1337.03	

Standard Formula Not to be taken from File

DISCONTINUED

DCC 7/31/64

*EP-427-W from Eagle Picher Co.

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hours

REMARKS: Changed for Cowles dispersion.

Mill Base 68%

NV by Vol. 79.3%

PVC 32%

FORMULATOR J. E. Southwick

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70° Min.

NON VOL. 89.6% FLASH P 100°F

MATCH FOR

IS AGITATOR REQUIRED

GLD060476

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-D-1
		PIGMENT 57.8 %		Endurance Mildew & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				7/8/64
		PIGMENT		Warning No. 11-62 NFVLA
		Titanium Dioxide	22.0%	
		Zinc Oxide	33.7	No change in analysis
		Magnesium Silicate	44.3	
			100.0%	Contains added fungicide to mak
				this paint resistant to the
				action of Mildew Fungi growing
				in or on the paint.
				RESISTANT TO MILDEW ON THE
				PAINT FILM ONLY.
		VEHICLE		
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	Di(Phenyl-Mercury)
			100.0%	Dodecenyl Succinate 0.08
				Inert Ingredients 99.92
				100.00
				# Enamel Lot
				#1 & #2 Natural Base 7-17-64A
				#14 7-17-64B
		Y-1800	367	

GLD060477

GLIDDEN 2504-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-E-1(Coules

GOOD: Endurance Mildew & Fume Resistant

LABORATORY NO. [illegible]

CONSISTENCY House Paint - White

COST CLASS [illegible] DATE 9/28/64

FOR USE ON SAN FRANCISCO ONLY

STRAINER GRIND 3-4

CUSTOMER Less than 1% lead

MILL Coules WT. OR BE 13.3#

CODE NUMBER	ONE GALLON BATCH PINTS	ONE GALLON BATCH LBS.	ONE GALLON BATCH OZS.	LARGE BATCH GALS.	LARGE BATCH LBS.	LARGE BATCH OZS.
W-208				1.45	50.00	
W-280				3.70	120.00	
W-33				5.54	260.00	
W-188				14.50	341.00	
W-218 Premix				0.17	2.50	
S-91				0.18	1.20	
VM-523				0.13	1.00	
O-1(8.26 gal. in dispersion)				19.81	(154.00)	
O-220(34.11				34.11	(270.60)	
S-43				15.23	99.00	
S-148				3.92	26.50	
VM-534 DISCONTINUED				0.17	1.36	
VM-532 SEE Y-1800-E-1				0.50	4.82	
VM-659				0.50	4.05	
M-486(Hold for viscosity Check)				0.14	1.00	
YIELD				100.05	1337.03	

Standard Formula. Not to be taken apart

IS AGITATOR REQUIRED

VISC. F. & P. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70° min.

NON VOL. 89.6% FLASH PM 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hours

REMARKS:

Mill Base 68.0%

NV by Vol. 79.3

PVC 32.0

Released to delete V-286

FORMULATOR J. E. Southwick

GLD060478

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-M-1
		PIGMENT 57.8 %		Interstate Milldew & Fungi
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		9/28/62
		PIGMENT		Warning No. 11-62 NYKA
		Titanium Dioxide	33.0%	
		Zinc Oxide	28.7	No change in coat. Co
		Magnesium Silicate	54.3	
			100.0%	Contains added fungicide to make this paint resistant to the action of Milder Fungi growing in or on the paint.
				RESISTANT TO MILDEW ON THE PAINT FILM ONLY.
		VEHICLE		
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	Di(Phenyl-Mercury)
			100.0%	Dodecenyl Succinate 0.06%
				Inert Ingredients 99.94
				100.00%
				1 Enamel
				#14 x 30 10-22-62
				San Francisco Only.
		Y-1800	367	

GLD060479

GLIDDEN 40004 PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-E-1 PAGE 5

GOODS Endurance-Mildew & Fume Resistant House

LABORATORY NO.

CONSISTENCY Paint - White

COST CLASS DATE 9/26/64

FOR USE ON Mfg. plants #4-8-14-15-16 only.

STRAINER GRIND 3-4

CUSTOMER Less than 1% Lead

Warehouse WT. OR BE 13.3#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(2.11)	71.60	
W-91				(2.94)	98.00	
W-33				(5.59)	259.80	
W-188				(14.50)	341.20	
W-218) Premix				(0.17)	2.50	
S-91)				0.18	(1.20)	
O-1				19.81	(154.0)	
O-220				34.11	(270.6)	
S-43				15.50	(100.78)	
S-148				3.92	(26.50)	
VM-534				0.17	(1.36)	
VM-432				0.50	(4.02)	
VM-659				0.50	(4.05)	
M-455(Hold) Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1336.41	

Standard Formula Not to be taken from this

SUPERSEDED BY

IS AGITATOR REQUIRED

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SPEED 70 min.

NON VOL. 89.8% (Wt) FLASH PT 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

NV by Vol. 79.2%

PVC 32.0%

Reissued to delete O-286

FORMULATOR J. E. Southwick

GLD060480

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-S-
		PIGMENT 57.8 %		Enhances Mildew & Fung
		VEHICLE 42.2 %		Resistant House Paint - White
		100.00		
				9/28/64
		PIGMENT		
		Titanium Dioxide	22.0%	Warning 11-52 NPCA
		Zinc Oxide	28.7	
		Magnesium Silicate	44.3	
			100.0%	Contains added fungicide to mak
				this paint resistant to the
				action of Mildew Fungi growing
				in or on the paint.
				RESISTANT TO MILDEW ON THE
		VEHICLE		PAINT FILM ONLY.
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	Di(Phenyl-Mercury)
			100.0%	Dodecenyl Succinate 0.05%
		Y Enamel Lot 11-26-64		Inert Ingredients 99.95
		#4-8-14-15-16 & 30		100.00%
		#30 (Back) U.C.A. 10-26-64		
		Italy 11-30-64 D		MFR. plants #4-8-14-15-16 only
		W Lyles 1-5-65 (4)		
		Y-1800 367		Y-1800-1

GLD060481

ELLIOTT 408-IP PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-E-2 Rev.

GOODS Endurance Mildew & Fume Resistant House

LABORATORY NO.

CONSISTENCY Paint - White

COST CLASS DATE 9/28/64

FOR USE ON Mfg. plant #5 ~~only~~ # 2

STRAINER GRIND 3-4

CUSTOMER Less than 1% Lead

MILL Morehouse WT. OR BE 13.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-209				2.11	71.60	
W-91				2.94	98.00	
W-33				5.59	259.80	
W-188				14.50	341.20	
W-218) Premix				0.17	2.50	
S-91)				0.18	1.20	
O-1				19.81	154.00	
O-220				34.11	270.60	
S-43				15.75	103.00	
S-148				3.92	26.50	
VM-534				0.17	1.36	
VM-432				0.50	4.82	
VM-659				0.35	2.02	
M-455(Hold) Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1336.60	

Standard formula. Not to be taken from File

IS AGITATOR REQUIRED

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL. 89.8% (Wt) FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING as needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 72 hrs.

REMARKS:

NV by Vol. 79.2%

PVC 32.0

Reissued to delete O-286

FORMULATOR J. E Southwick

GLD060482

COST	DATE	ANALYSIS		CUSTOMERS V-1800-E-2
		PIGMENT 57.8 %		Endurance Mildew & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				9/26/64
		PIGMENT		
		Titanium Dioxide	22.0%	Masslow II-62 EPUA
		Zinc Oxide	33.7	
		Magnesium Silicate	44.3	
			100.0%	Contains added fungicide to make
				this paint resistant to the
				action of Mildew Fungi growing
				in or on the paint.
				RESISTANT TO MILDEW ON THE
		VEHICLE		PAINT FILM ONLY.
		Treated Linseed Oil 74.8%		
		Mineral Spirits & Driers 25.2		Di(Phenyl-Mercury)
		100.0%		Dodecenyl Succinate 0.04%
				Inert Ingredients 99.96%
				100.00%
				Mfg. plant #5 ~~only~~ #2
				X Emanuel Lutz 10-26-64
				#2-5-430
		Y-1800 367		Y-1800-2

GLD060483

GLIDDEN ABCM PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-E-3

LABORATORY NO.

GOODS: Endurance Mildew & Fume Resistant House Paint - White

CONSISTENCY: Mfg. plants #1-K-11-12-17 only.

FOR USE ON:

CUSTOMER: Less than 1% Lead

COST CLASS | DATE 9/28/64

STRAINER | GRIND 3-4

MILL Morehouse | WT. OR BE 13.3

IS AGITATOR REQUIRED

VISC. F. B. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL. 89.8% (Wt) FLASH PT. 100°F

MATCH FOR

REDUCER B-43

ADT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

R. D. TO RECOAT IN 72 hrs.

REMARKS:

NV by Vol. 79.2%

[illegible] 32.0

Reissued to delete O-286

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	ONE GALLON BATCH LBS.	ONE GALLON BATCH OZS.	LARGE BATCH GALS.	LARGE BATCH LBS.	LARGE BATCH OZS.
W-208				(2.11)	71.60	
W-91				(2.94)	98.00	
W-33				(5.59)	259.80	
W-188				(14.50)	341.20	
W-218) Premix				(0.17)	2.50	
S-91)				0.18	(1.20)	
O-1				19.81	(154.0)	
O-220				34.11	(270.6)	
S-43				16.00	(104.0)	
S-148				3.92	(26.5)	
VM-534				0.17	(1.36)	
VM-432				0.50	(4.82)	
M-455(Mold) Viscosity must be 82 KU min. before adding.				0.12		
YIELD				100.00	1335.58	

Standard formula. Not to be taken from file

GLD060484

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-E-
		PIGMENT 57.8 %		Endurance House Paint -
		VEHICLE 42.2 %		Mildew & Fume Resistant - White
		100.0%		
				9/28/64
		PIGMENT		
		Titanium Dioxide	22.0%	Warning 11-62 MPVA
		Zinc Oxide	33.7	
		Magnesium Silicate	44.3	
			100.0%	Y Enamel List 10-26-6
				#1-11-12-17
		VEHICLE		
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	
			100.0%	
				Mfg. plants #1-3-11-12-17 on
		Y-1800	367	

GLD060485

GLIDDEN 4804-R PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Endurance Mildew - Fume Resistant House Paint — FORMULA NO. Y-1800-F

CONSISTENCY: White — LABORATORY ASX (Experimental)

FOR USE ON: Mfg. plant #16 — COST CLASS — DATE 5/3/65

CUSTOMER: Less than 1% Lead — STRAINER — GRIND 4

MILL Pebble - WT. OR BE 13.7#

IS AGITATOR Warehouse - VISC. F. B. 90-95 Kuhnke Cowles

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Gloss

NON VOL. 38.2% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 48 hrs.

REMARKS:

NV by Vol. - 75.3%

PVC - 37.8%

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	ONE GALLON BATCH LBS.	ONE GALLON BATCH OZS.	LARGE BATCH GALS.	LARGE BATCH LBS.	LARGE BATCH OZS.
W-290				(0.75)	25.0	
W-280				(4.46)	145.0	
W-294				(5.58)	262.0	
W-188				(8.50)	200.0	
W-121				(8.86)	200.0	
W-282				(0.76)	15.0	
CR-475				0.42	(3.4)	
VM-432				1.20	(11.6)	
O-314				6.71	(50.5)	
O-9				4.70	(37.0)	
O-286				4.00	(32.0)	
O-1				32.00	(248.7)	
S-43				18.00	(117.0)	
S-148				3.94	(26.0)	
VM-534				0.50	(4.1)	
				0.15	(1.2)	
YIELD				100.53	1379.5	

Standard Formula. Not to be taken from file

GLD060486

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-F (Exp.)
		PIGMENT 61.5 %		Endurance Mildew - Fung Resistant
		VEHICLE 38.5 %		House Paint - White
		100.0%		
				5/3/65
		PIGMENT		
		Titanium Dioxide	20.2%	
		Silica & Silicates	25.3	Warning No. 11-62 NFVLA
		Zinc Oxide	30.9	
		Calcium Carbonate	23.6	Contains added fungicide to make
			100.0%	this paint resistant to the action
				of Mildew Fungi growing in or
				on this paint.
				Resistant to Mildew on the Paint
		VEHICLE		Film Only.
		Treated Soya Oil	15.7%	
		Treated Linseed Oil	53.8	Di(Phenyl-Mercury)
		Mineral Spirits &		Dodecenyl Succinate .06%
		Driers	30.5	Inert Ingredients 99.94
			100.0%	100.00%
				1 Gent Lot 5-29-650
				#30 (Bowell-Hall-Southwood-Drum)
				#16
				Mfg. plant #16 Only
				Lot part #'s 4/65 5-30-65-0
		Y-1800	565	#30 (Thurston) 2-24-660

GLD060487

GLIDDEN BOOK PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS Endurance - Mildew & Fume Resistant House Paint - White

FORMULA NO. Y-1800-F-1 BASE

CONSISTENCY

LABORATORY NO.

FOR USE ON Mfg. plants #4-8-14-15-16

COST CLASS

DATE 2/12/65

CUSTOMER Less than 1% Lead

STRAINER

GRIND 3-4

MIL Cowles

WT. OR #3.3#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
V-290				0.75	26.0	
V-280				4.46	145.0	
V-33				5.59	259.8	
V-188				14.50	341.2	
V-218 Premix				0.17	2.5	
S-91				0.18	1.2	
VE-523				0.13	1.0	
C-1 (8.3 gals. in dispersion)				19.81	154.0	
C-220 (34.0 " ")				34.00	268.6	
S-43				15.37	100.0	
S-148				3.92	26.5	
VM-432				.50	4.6	
VM-534				0.17	1.4	
VM-659				0.50	4.1	
Tint base body with 0.1 gallon of V-466 /100 gallons.						
YIELD				100.05	1335.9	

Standard Formula Not to be changed Without Lab. Approval

IS AGITATOR REQUIRED

VISC. F 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL. 89.8% FLASH PT 100°F

MATCH FOR

REDUCER S-43

THIN. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

OK TO RECOAT IN 72 hrs.

REMARKS Changed for easy Cowles dispersion.

NV by Vol. 79.2%

PVC 32.0

FORMULATOR J.E. Southwick

GLD060488

COST	DATE	ANALYSIS		CUSTOMERS. Y-1800-F-1
		PIGMENT 57.8 %		Endurance Milden & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
		PIGMENT		2/12/65
		Titanium Dioxide	22.0%	
		Zinc Oxide	33.7	Keeping No. 11-62 NFULA
		Magnesium Silicate	44.3	
			100.0%	Contains added Fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.
				Resistant to Mildew on the Paint Film Only.
		VEHICLE		
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	Di(Phenyl-Mercury)
			100.0%	Dodecanyl Succinate 0.08%
				Inert Ingredients 99.92
				100.00%
		Sweden 7-8-65		
		Costa Rica 7-2-66 (T)		Mfg. plants #4-8-14-15-16.
				4 Point List 2-17-66
				#4-8-14-15-16-30
		Y-1800	56%	

GLD060489

GLIDDEN 488-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1800-P-2 BAS

GOODS Endurance - Mildew & Fume Resistant House Paint - White

LABORATORY NO.

CONSISTENCY

COST CLASS DATE 2/12/65

FOR USE ON Mfg. plants #2-5

STRAINER GRIND 3-1

CUSTOMER Less than 1% Lead

MILL Cowles WT. OR BE 13.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-290				0.75	26.0	
W-280				4.46	145.0	
W-33				5.59	259.8	
W-188				14.50	341.2	
W-218) Premix				0.17	2.5	
S-91)				0.18	1.2	
VM-523				0.13	1.0	
O-1 (8.3 gals. in dispersion)				49.81	(154.0)	
O-220(34.0 gals. in dispersion)				34.00	(268.5)	
S-43				15.62	(101.5)	
S-148				3.92	(26.5)	
VM-432				.50	4.8	
VM-534				0.17	(1.4)	
VM-659				0.25	(2.0)	
If necessary body with 0.1 gallon of N-486 per 100 gallons.						
YIELD				100.05	1335.3	

Standard Formula, Not to be taken

IS AGITATOR REQUIRED

VISC. F. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL. 89.8% FLASH 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hrs.

REMARKS Charged for easy Cowles dispersion.

NV by Vol. 79.2%

PVC. 32.0%

FORMULATOR J. E. Southwick

GLD060490

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-E-2
		PIGMENT 57.6 %		Endurance Mildew & Fume
		VEHICLE 42.2 %		Resistant House Paint - White
		100.0%		
				2/12/65
		PIGMENT		Varnish No. 11-62 MEVLA
		Cuprous Oxide	22.0%	
		Zinc Oxide	33.7	
		Magnesium Silicate	44.3	Containg added fungicide to make
			100.0%	this paint resistant to the
				action of Milday Fungi growing
				in or on the paint.
				Resistant to Milday on the Paint
				Film Only.
		VEHICLE		
		Treated Linseed Oil	74.8%	DI (Phenyl-Mercury)
		Mineral Spirits & Driers	25.2	Dodecenyl Succinate 0.04%
			100.0%	Inert Ingredients 99.96
				100.00%
				Y Paint List 2-17-650
				#2-5-30
				Mfg. plants #2-5
		Y-1800	562	

GLD060491

GOODRICH 480-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. V-1800-F-3

GOODS Endurance - Mildew & Fume Resistant House Paint - White

CONSISTENCY

FOR USE ON Mfg. plants #1-11-12-17

CUSTOMER Less than 1$ Load

LABORATORY [redacted]

COST CLASS DATE 2/12/65

STRAINER GRIND 3-4

MILL Cowles WT. OR BE 13.3#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-290				(0.75)	26.0	
W-280				(4.46)	145.0	
W-33				(5.59)	259.8	
W-188				(14.50)	341.2	
W-218 Premix				(0.17)	2.5	
S-91				0.18	(1.2)	
VM-523				0.13	(1.0)	
C-1 (8.3 gals. in dispersion)				19.81	(154.0)	
C-220 (34.0 gals.				34.00	(268.6)	
S-43				15.87	(103.2)	
S-148				3.92	(26.5)	
VM-432				.50	4.8	
VM-534				0.17	(1.4)	
Thr necessary body with 0.1 gal. of K-485/100 gals.						
YIELD				100.05	1335.0	

Standard Formula to be taken as Not to be changed

IS AGITATOR REQUIRED

VISC. F. B 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN 70 min.

NON VOL. 89.8% FLASH PT 100°F

MATCH FOR

REDUCER S-43

ADJ. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 72 hrs.

REMARKS: Changed for easy Cowles dispersion.

NV by Vol. 79.2%

PVC 32.0%

FORMULATOR J. E. Southwick

GLD060492

COST	DATE	ANALYSIS		CUSTOMERS Y-1800-E-3
		PIGMENT 57.8 %		Endurance House Paint -
		VEHICLE 42.2 %		Mildew & Fume Resistant - Whi
		100.0%		
				2/12/65
		PIGMENT		
		Titanium Dioxide	22.0%	
		Zinc Oxide	33.7	Warning No. 11-62 MPVLA
		Magnesium Silicate	44.3	
			100.0%	
				Mfg. plants #1-11-12-17
				Y Paint List 2-17-6
		VEHICLE		#1-11-12-17-30
		Treated Linseed Oil	74.8%	
		Mineral Spirits & Driers	25.2	
			100.0%	
		Y-1800	562	

GLD060493

Glidden Form 1109-I Printed in U.S.A. 4/66 C & R FORMULA

Product Endurance Mildew & Fume Resistant House Paint - White

Customer (Atlanta Only)

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-290	2.11	21.5		
*W-616	2.94	98.0		
W-33	5.59	259.8		
W-188	14.50	341.2		
W-218	0.17	2.5	Premix	
S-91	0.18	1.2		
VM-523	0.13	1.0		
O-1	19.81	184.0		
O-220	34.11	270.6		
S-43	15.50	100.8		
S-148	3.92	26.5		
VM-534	0.17	1.4		
VM-432	0.50	4.8		
VM-659	0.50	4.1		
*Opaque RS from Glidden				
Yield	100.00	1337.5		

Formula Number E-1900-F-4

Laboratory Number

Ref. Pebble Date 11/15/66

Mill Coml/Spec Grind 3-4

NPVLA Gloss -1

Label Warning 11-62 METHOD

Wt./Gal. 13.3#

Flash Pt. °F 100°

N.V.Wt. 69.8%

N.V.Vol. 79.2%

Visc. KU 85-90 KU 4-6-1

Visc. Red.

Reducer S-43 Ratio

P.V.C. 32% pH

Color Match

Gloss Method

Strainer

Container

Application Brush

Cure Overnight

Recoat: 48 hrs.

Remarks Changed to use

Formulator Green/Southwick

Approved by Bowell

GLD060494

Glidden Form 4109-L (back) Printed in U.S.A. 4/66 C & R FORMULA

CLASS					
CODES					

DESCRIPTORS (20 spaces–limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins Treated Linseed Oil

Color White Gloss

For Use On

Resistance

Manufactured at Plants #8 ONLY 12-1-66 "I"

Test Paint Lot #30

Manufacturing Instructions or Remarks

Di(Phenyl-Mercury) Dodecenyl Succinate	0.08%
Inert Ingredients	99.92%
	100.00%

Date 11/15/66 Formula No. T-1800-P-4

Product Endurance Mildew & Fume Resistant House Paint - White

Label Warning #11-52 NPCA

ANALYSIS

Pigment	57.8 %
Vehicle	42.2 %
	100.0%

Pigment

Titanium Dioxide	22.0%
Zinc Oxide	33.7%
Magnesium Silicate	44.3%
	100.0%

Vehicle

Treated Linseed Oil	74.8%
Mineral Spirits & Driers	25.2%
	100.0%

T-1800-4 6611

GLD060495

Glidden Form 1109-1 Printed in U.S.A. 4/66 — C & R FORMULA

Product: Endurance - Mildew & Fume Resistant House Paint - White

Customer:

Formula Number: Y-1800-W-1

Laboratory Number:

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

Mill: Cowl Grind: 3-4

NPVLA: Lead: -1

Label Warning: 11-62 METHOD

Wt./Gal.: 13.3#

Flash Pt.: °100°

N.V.Wt.: 89.8%

N.V.Vol.: 79.2%

Visc. F.B.: 85-90 KU

Visc. Red.:

Reducer: S-330 Ratio

P.V.C.: 32% pH

Color: White Match

Gloss: Over 70 Method

Strainer:

Container:

Application: Brush

Cure: Air Dryi Overnight
Recoat: 72 hrs.

Remarks:

Formulator: J. Southwick

Approved by:

CODE NUMBER	100 GALLON BATCH GALLONS	POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
[illegible]-830	(0.75)	26.0		Standard Formula
[illegible]-625	(4.46)	145.0		Not to be taken
[illegible]-533	(5.59)	259.8		from File.
[illegible]-439	(14.50)	341.2		
[illegible]-118)	(0.17)	2.5		Premix
[illegible]-213)	0.18	(1.2)		
[illegible]-380	0.13	(1.0)		
U-101	19.81	(154.0)	8.3	gals. in dispersion
U-187	34.00	(268.6)	34.0	" " "
[illegible]-330	15.37	(100.0)		
[illegible]-348	3.92	(26.5)		DISCONTINUED
[illegible]-342	.50	4.8		
[illegible]-324	0.17	(1.4)		SEE Y-1800-A
[illegible]-419	0.50	4.1		

If necessary body with 0.1 gallon of [illegible]-168/100 gallons.

Standard Formula, Not to be taken from File.

Yield: 100.05 1335.9

GLD060496

Glidden Form 1105-1 (back) Printed in U.S.A. 4/66 C & R FORMULA

CLASS					
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☐ Silicone Yes ☐ No ☐

Resins

Color Gloss

For Use On

Resistance #30 1-4-67

Manufactured at Plant #4-8-14-15-16 2-16-67

Contains added Fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.

Resistant to Mildew on the Paint Film Only.

Di(Phenyl-Mercury) Dodecenyl Succinate	0.08%
Inert Ingredients	99.92
	100.00

Date 3/1/67 Formula No. Y-1800-F-1

Product Endurance Mildew & Fung Resistant House Paint - White

Label Warning #11-62 NFUA

ANALYSIS

Pigment	57.8 %
Vehicle	42.2 %
	100.0%

Pigment

Titanium Dioxide	22.0%
Zinc Oxide	33.7%
Magnesium Silicate	44.3%
	100.0%

Stamped:

#1-2-5-11-12-17 2-16-67

Vehicle

Treated Linseed Oil	74.8%
Mineral Spirits & Driers	25.2
	100.0%

NO CHANGE IN ANALYSIS

Y-1800-1 562

GLD060497

Glidden Form 1169-1 Printed in U.S.A. 4/66

C & R FORMULA

Product: Endurance - Mildew & Fume Resistant House Paint - White

Container:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
H-830	0.75	26.0		Master Formula, Not to be taken from File
W-625	4.46	145.0		
W-533	5.59	259.8		
N-439	14.50	341.2		
E-118	0.17	2.5		Premix
S-213	0.18	1.2		
E-380	0.13	1.0		
O-101	19.81	154.0		8.3 gals. in dispersion
O-187	34.00	268.6		34.0 " " "
S-330	15.62	101.5		
S-348	3.92	26.5		
E-342	.50	4.8		
E-324	0.17	1.4		
E-419	0.25	2.0		

If necessary body with 0.1 gallon of E-168/100 gallons.

Yield: 100.05 1335.3

Formula Number: X-1800-F-2

Laboratory Number:

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

Mill: Cowl Grind 3-4

NPVLA: %Lead -1

Label Warning: 11-62 METHOD

Wt./Gal. 13.3#

Flash Pt. 200°F

N.V.Wt. 89.8%

N.V.Vol. 79.2%

Visc. F 85-90 KU

Visc. Red.

Reducer S-330 Ratio

V.C. 32% pH

Color White Match

Gloss Over 70 Method

Strainer

Container

Application Brush

Cure Air Dry: Overnight

Recoat : 72 hrs.

Remarks

Formulator J. E. Southwick

Approved by

GLD060498

Glidden Form 1109-1 (back) Printed in U.S.A. 4/66 C & R FORMULA

Date 3/1/67 Formula No. Y-1800-F-2

CLASS					
CODES					

Product Endurance Mildew & Fume Resistant House Paint - White

DESCRIPTORS (20 spaces-limit)

Label Warning #11-62 NPVLA

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☐ Silicone Yes ☐ No ☐

Resins

Color Gloss

For Use On

Resistance

Manufactured at Plants #2-5

#4-4-67 #1
2-16-67

Manufacturing Instructions or Remarks

Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.

Resistant to Mildew on the Paint Film Only.

Di(Phenyl-Mercury) Dodecenyl Succinate	0.04%
Inert Ingredients	99.96%
	100.00%

ANALYSIS

Pigment	57.8 %
Vehicle	42.2 %
	100.0%

Pigment

Titanium Dioxide	22.0%
Zinc Oxide	33.7%
Magnesium Silicate	44.3%
	100.0%

Stamped:
#1-4-8-11-13-14-15-16-17 2-16-67

Vehicle

Treated Linseed Oil	74.8%
Mineral Spirits & Driers	25.2
	100.0%

NO CHANGE IN ANALYSIS

Y-1800-2 562

GLD060499

Cudden Form 1109-I Printed in U.S.A. 4/66

C & R FORMULA

Product: Endurance - Mildew & Fung Resistant House Paint - White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT
W-830	0.75	26.0	
W-625	4.46	145.0	
W-533	5.55	259.8	
N-439	14.50	341.2	
E-118)	0.17	2.5	) Premix
S-213)	0.16	1.2	)
E-360	0.13	1.0	
O-101	19.62	(154.0)	5.3 gals. in dispersion)
O-187	34.00	(268.6)	34.0 " " ")
S-330	15.87	(103.2)	
S-348	3.92	25.5	
E-342	.50	4.8	
E-324	0.17	1.4	
Yield	100.05	1335.0	

MANUFACTURING INSTRUCTIONS: Standard, Not to be taken from File.

If necessary body with 0.1 gal. of E-168/100 gals.

Formula Number: Y-1800-F-3

Laboratory Number:

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

Mill: Cowl Grind: 3-4

NPVLA: %Load: -1

Label Warning: 11-62 METHOD

Wt./Gal.: 13.3#

Flash Pt.: °100°F

N.V.W.: 89.8%

N.V.Vol.: 79.2%

Visc. F.B.: 85-90 KU

Visc. Red.

Reducer: E-330 Ratio

P.V.C.: 32% pH

Color: White Match

Gloss: Over 70 Method

Strainer

Container

Application: Brush

Cure: Air Dry: Overnight
Recoat: 72 Hrs.

Remarks

Formulator: J. E. Southwick

Approved by

GLD060500

Glidden Form 1109-I (Rocky) Printed in U.S.A. 4/66 — C & R FORMULA

CLASS					
CODES					

DESCRIPTORS (20 spaces–limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☐ Silicone Yes ☐ No ☐

Resins

Color — Gloss

For Use On

Resistance — RF 30 — 1-4-67

Manufactured at Plant #1-11-12-17 — 2-16-67

Manufacturing Instructions or Remarks

Date 3/1/67 Formula No. Y-1800-F-3

Product Endurance House Paint-Mildew & Fume Resistant - White

Label Warning #11-62 NFPLA

ANALYSIS

Pigment 57.8 %

Vehicle 42.2 %

100.0%

Pigment

Titanium Dioxide	22.0%
Zinc Oxide	33.7%
Magnesium Silicate	44.3%
	100.0%

Stirmpel:

#2-4-5-8-14-15-16 — 2-16-67

Vehicle

Treated Linseed Oil	74.8%
Mineral Spirits & Driers	25.2%
	100.0%

NO CHANGE IN ANALYSIS

Y-1800-3 562

GLD060501

Glidden Form 1109-1 Printed in U.S.A. 4/65

C & R FORMULA

Product: Endurance Mildew & Fume Resistant House (Paints - White)

Customer: (Atlanta Only)

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-830	2.11	71.6		
W-816	2.94	98.0		
W-533	3.59	259.8		
W-439	24.30	341.2		
E-119	0.17	2.5	Premix	
S-219	0.18	1.2		
R-330	0.13	1.0		
O-107	19.81	134.0		
O-117	34.11	270.6		
G-350	15.50	100.8		
G-348	3.92	26.3		
E-324	0.17	1.4		
E-342	0.50	4.8		
E-419	0.50	4.1		
Yield	100.00	1337.5		

Standard Formula. Not to be taken from file.

Formula Number: W-1800-F-4 prime

Laboratory Number: 225-2681/

Date: 3/1/67

Mill: Paint/Lance.

Grind: 2

NPVLA: Xload 11-62

Label Warning:

Wt./Gal.: 13.3#

Flash Pt.: 200°

N.V.W.: 69.8%

N.V.Vol.: 49.2%

Visc. F.B.: 85-90 KU

Visc. Red.: 4-0-1

Reducer: R-330

Ratio: 3#

P.V.C.:

pH:

Color:

Match:

Gloss:

Method:

Strainer:

Containers:

Application: Brush

Air Dry: Overnight

Recoat: 48 hrs.

Remarks:

Formulator: Green/Southwick

Approved by: Powell

METHOD: 4-0-1

GLD060502

Glidden Form 1109-1 (back) Printed in U.S.A. 4/66 C & R FORMULA

CLASS					
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins Treated Linseed Oil

Color White Gloss

For Use On

Resistance

#30 1-4-67

Manufactured at Plants #8 ONLY

Manufacturing Instructions or Remarks

Di(Phenyl-Mercury) Dodecenyl Succinate	0.08%
Inert Ingredients	99.92%
	100.00%

Date 3/1/67 Formula No. Y-1800-F-4

Product Endurance Mildew & Fume Resistant House Paint - White

Label Warning #11-62 NPILA

ANALYSIS

Pigment 57.8 %

Vehicle 42.2 %

100.0%

Pigment

Titanium Dioxide	22.0%
Zinc Oxide	33.7%
Magnesium Silicate	44.3%
	100.0%

Vehicle

Treated Linseed Oil	74.8%
Mineral Spirits & Driers	25.2%
	100.0%

NO CHANGE IN ANALYSIS

Y-1800-4 6611

GLD060503

Glidden Form 1109-1 Printed in U.S.A. NOVELTY C & R FORMULA

Product Endurance Self Cleaning Imperial White

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V-134	11.07	300.0	.244	SEE SPECIAL
V-616	3.20	110.0	.089	MANUFACTURING
V-538	1.92	90.0	.073	INSTRUCTIONS.
20 E-481	5.04	140.0	.114	
E-846	0.76	15.0	.012	
C-978	0.42	3.4	.003	
E-342	1.20	11.6	.009	
E-380	0.25	2.0	.002	
389-MA-16	0.08	1.1	.001	
S-330	7.50	48.7	.040	
E-118	0.20	3.0	.002	
S-213	0.22	1.5	.001	
C-123	31.00	241.0	.196	
E-190	11.00	82.5	.067	
U-131	7.00	56.1	.046	
S-330	15.40	100.0	.081	
E-348	3.60	23.8	.019	
E-324	0.13	1.0	.001	
E-168	0.09	0.7	.001	
Yield	100.08	1231.7	1.000	

Standard Formula Not to be taken from File

Formula Number Y-1800-0

Laboratory Number

R.M. Cost Date 4/5/67

Mill Cowl Grind 3-4

NPVLA %Lead -1

Label Warning 11-62 METHOD

Wt./Gal. 12.3#

Flash Pt. °F. 100°

N.V.W. 82

N.V.Vol. 67.1

Visc. F. 98-102 KU 4-C-1

Visc. Red.

Reducer S-330 Ratio

P.V.C. 32.7 pH

Color Match

Gloss 75 Method

Strainer

Container

Application Brush

AD./Bake Overnight

Recoat Recoat: 72 Hrs.

Remarks

Formulator Green/Southwick

Approved by S.T.B.

GLD060504

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

CLASS					
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

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

Resins Soya & Linseed Oil

Color Gloss

For Use On

Resistance

Manufactured at Plants #1-2-4-5-8-11-12-14-15-16-17 = 6-8-67 #)

Ft. Madison 10-14-67 (S)

Manufacturing Instructions or Remarks Columbia, Ohio, Ecuador, Guatemala, Italy, Japan (Ashikaga), Mexico, Panama, Peru 6-23-67 (S)

Philippines, Stockton, Sweden 6-27-67 (S)

Date 4/5/67 Formula No. Y-1800-G

Product Endurance Self Cleaning Imperial White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment	53.2	%
Vehicle	46.8	%
	100.0%	

Pigment

Titanium Dioxide	17.2%
Titanium Calcium	46.9%
Zinc Oxide	14.1%
Barium Meta Borate	21.8%
	100.0%

Vehicle

Treated Soya & Linseed Oil	61.4%
Mineral Spirits & Driers	38.6%
	100.0%

Y-1800 764

GLD060505

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

C & R FORMULA

Product: Endurance Self Cleaning Imperial White

Customer: (ROYALTY)

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
E-134	(11.0)	300.0	.244	
E-616	(3.20)	110.0	.089	
E-533	(1.92)	90.0	.073	
E-481	(5.04)	140.0	.114	
E-846	(0.76)	15.0	.012	
E-978	0.42	(3.4)	.003	
E-342	1.20	(11.6)	.009	
E-380	0.25	(2.0)	.002	
359-WA-16	(0.08)	1.1	.001	Weigh Carefully
S-330	7.50	(48.7)	.040	
S-118	(0.20)	3.0	.002	
S-213	0.22	(1.5)	.001	
C-123	31.00	(241.0)	.196	
E-190	11.00	(82.8)	.067	
C-131	7.00	(56.1)	.046	
S-330	15.40	(100.0)	.081	
S-346	3.60	(23.8)	.019	
E-324	0.13	(1.0)	.001	
E-168	0.09	(0.7)	.001	
Yield:	100.00	1231.7	1.000	

Standard Formula Not to be taken from File

Formula Number: V-1800-G

Laboratory Number:

Date: 10/12/67

SUPERSEDE- [illegible] Grind: 3-4

NPVLA: Lead: -1

Label Warning: 11-62

		METHOD
Wt./Gal.	12.3#	5-A-1
Flash Pt. °F	100	
N.V.W.	82	
N.V.Vol.	67.1	
Visc. KU	98-102 KU	4-C-1
Visc. Red.		
Reducer	S-330 Ratio	
P.V.C.	32.7 pH	
Color	Match	
Gloss	75 Method	
Strainer		
Container		
Application	Brush	
AD. Bake	Overnight	
Budget Time	72 Hrs.	
Remarks		

Formulator: Green/Southwick

Approved by: S.T.B.

GLD060506

C.B.R FORMULA

Date 10/12/67 Formula No. T-1800-C

Product Endurance Self Cleani

Label Marking Imperial White

CLASS 301.121 722.903

CODE

DESCRIPTORS (20 spaces - Limit)

Tentative Customer

Sales Grade and Treatment

End Use

Specifications

Raw Yes [X] No [ ] Silicone Yes [ ] No [X]

Resins

Color Gloss

For Use On

Remarks Prime-5-8-11-12-14-15-16-17 - 11:26 12/67

Manufacturing Instructions Batch Size

100 H.P. Cowles	1500 Gallons
60 H.P. Cowles	1000 Gallons
40 H.P. Cowles	650 Gallons
30 H.P. Cowles	500 Gallons

ANALYSIS

	Pigment	Vehicle
Pigment	53.2	%
Vehicle	46.8	%
	100.0%	

Pigment	
Titanium Dioxide	17.2%
Titanium Calcium	46.9%
Zinc Oxide	14.1%
Barium Meta Borate	21.8%
	100.0%

Vehicle

Treated Soya & Linseed Oil	61.4%
Mineral Spirits & Driers	38.6%
	100.0%

No change in analysis

T-1800 754

GLD060507

Glidden Form 1109-1 Printed in U.S.A. PAGE 1 C & R FORMULA

Product: Endurance Self Cleaning Imperial White
Customer: (ROYALTY FORMULA)

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
This paint is made in three dispersions to give maximum grinding efficiency. However, the 1st dispersion may be used as the grinding base for the 2nd dispersion if so desired:				
*(Over for batch sizes)				
1st Dispersion (5 grind) (12.92 gal.)				
S-330	7.50	(48.7)		
E-118	(0.20)	3.0		
Mix 5 min. and add:				
S-213	0.22	1.5		Add very slowly.
Grind 10 min. and add:				
O-123	4.00	(31.1)		
S-330	1.00	(6.5)		
Mix thoroughly and use as Let-down or grind base for 2nd dispersion:				
2nd Dispersion (3-4 grind) (52.7 uals.)				
O-123	12.00	(93.3)		
E-140	11.00	(82.8)		
E-342	1.20	(11.6)		
Continued on Page II				

Yield

DISCONTINUED
SEE V-1800-G
Standard Formula, Not to be taken from File

Formula Number V-1800-G Base
Laboratory Number
R.M. Cost 10/12/67
Mill Cowl Grind 3-4
NPVLA Load -1
Label Warn 11-62
Wt./Gal. 12.3 METHOD 5-A-1
Flash Pt. +00
N.V.W. 82%
N.V.Vol. 67.1%
Vis. 98-102 KU 4-C-1
Misc. Red.
Reducer S-330 Ratio
P.V.C 32.7 pH
Color Match
Gloss 75 Method
Strainer
Container
Application Brush
AD Bake Overnight
Recoat Time 72 hrs.
Remarks ** Replaces form dated 4/5/67 for mfg. procedures.
Formulated Green/Southwick
Approved by S.T.B.

GLD060508

Division Form 1109-1 Printed in U.S.A. PAGE II C & R FORMULA

Product: Endurance Self Cleaning Imperial White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Continued from Page I				
E-181	5.04	140.0		
G-533	1.92	90.0		
W-134	5.33	150.0		
Grind to a 3-4 grind and add all of the				
1st dispersion also add:				
O-123	3.00	23.30		
E-168	0.09	0.70		Add slowly, mix well.
3rd Dispersion (4-5 grind) (36 Gallons)				
O-131	7.00	56.1		
O-123	8.00	62.2		
O-978	0.42	3.4		
S-846	(0.76)	15.0		
W-616	3.20	110.0		
W-134	5.54	150.0		
359-WA-16	0.08	1.1		
Grind to a 4-5 and add:				
O-123	4.00	31.1		
S-330	7.00	45.5		
(Continued on Page III)				
Yield:				

Formula Number: Y-1800-G

Laboratory Number:

R.M. Cost: Date 10/12/67

Mill: Grind

NPVLA: Lead

Label Warning: METHOD

Wt./Gal.

Flash Pt. °F.

N.V.W.

N.V.Vol.

Visc. F.B.

Visc. Rec.

Reducer: Ratio

P.V.C.: pH

Color: March

Gloss: Method

Strainer

Container

Application

Air Bake

Recoat Time

Remarks

Formulator: Green/Southwick

Approved by

GLD060509

Glidden Form 1102-I Printed in U.S.A. PAGE III C & R FORMULA

Product Endurance Self Cleaning Imperial White

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
	(Continued from Page II)			
Let-down material can be added to mixing tank or used as mill wash.				
S-330	7.40	(48.0)		
S-348	3.60	(23.8)		
E-324	0.13	(1.0)		
E-380	0.25	(2.0)		
Yield	100.08	1231.7		

Formula Number Y-1800-G

Laboratory Number

R.M. Cost Date 10/12/67

Mill Grind

NPVLA SLead

Label Warning	METHOD
Wt./Gal.	
Flash Pt., °F.	
N.V.Wt.	
N.V.Vol.	
Visc. F.B.	
Visc. Red.	
Reducer	Ratio
P.V.C.	pH
Color	Match
Gloss	Method
Strainer	
Container	
Application	
AD/Bake	
Recoat Time	
Remarks	

Formulator Green/Southwick

Approved by SJB

GLD060510

Glidden Form 1800-1 (back) Printed in U.S.A. 2/67 — C & R FORMULA

CLASS CODES	301.121	722.901			

DESCRIPTORS (20 spaces-limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

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

Resins

Color — Gloss

For Use On

Resistance

Manufactured at Pl #12-5-8-11-12-14-15-16-17 — 10-28-67

Manufacturing Instructions — *Batch Sizes

100 H.P. Cowles	1500 Gallons
60 H.P. Cowles	1000 Gallons
40 H.P. Cowles	650 Gallons
30 H.P. Cowles	500 Gallons

Date 10/12/67 Formula No. Y-1800-G

Product Endurance Self Cleaning Imperial White

Label Warning #11-62 EPVLA

ANALYSIS

Pigment	53.2 %
Vehicle	46.8 %
	100.0%

Pigment

Titanium Dioxide	17.2%
Titanium Calcium	46.9%
Zinc Oxide	14.1%
Barium Meta Borate	21.8%
	100.0%

Vehicle

Treated Soya & Linseed Oil	61.4%
Mineral Spirits & Driers	38.6%
	100.0%

No change in analysis

Y-1800 76#

GLD060511

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

*(ROYALTY) C & R FORMULA

Product: Endurance Self Cleaning - Imortal White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-134	(11.07)	300.0	24.2	Standard Formula
W-616	(3.20)	110.0	8.9	
W-533	(1.92)	90.0	7.2	Not to be taken
* E-481	(5.04)	140.0	11.3	from file.
E-846	(1.56)	30.0	2.4	
C-978	0.82	(6.8)	0.5	
E-342	1.20	(11.6)	0.9	
369-WA-16	(0.08)	1.1	0.1	These two items
E-396	(0.15)	5.0	0.5	should be added
E-168	0.09	0.7	0.7	after a 3-4 grind
				is obtained &
O-123	31.00	(241.0)	19.3	then ground for
F-190	11.00	(82.8)	6.7	10 min.
O-131	7.00	(56.1)	4.5	Must be used in
S-330	21.90	(142.7)	11.4	grind.
S-348	3.60	(23.8)	1.8	
E-324	0.1	(1.0)	0.1	
E-380	0.25	(2.0)	0.2	
Yield	100.01	1244.6	100.0	

Formula Number: Y-1800-H

Laboratory Number:

R.M. Cost: Date 1/15/68

Mill: MBSE-PEBL Grind 3-4

NPVLA: %Lead -1

Label Warning: 11-62 METHOD

Wt./Gal. 12.4 5-A-1

Flash Pt. °F. 100

Nov. Wt. 82.6

Nov. Vol. 67.9

Visc. F.B. 98-102 4-C-1

Visc. Red.

Reducer S-330 Ratio

V.C. 33.5 pH

Color White Match

Gloss 75 Method

Strainer

Container

Application Brush

AD. Beko Overnight

Recoat Time 48 hrs.

Remarks: Changed for easier manufacture & dry stability.

Formulator: Green/Southwick

Approved by: S.T.B.

GLD060512

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

CLASS	301.121 722.901			
CODES				

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

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

Resins This paint is resistant to the deterioration action of molds (mildew) and ~~xxxx~~ bacteria & to disfigurement of the surface by molds. No claim is made for preservative action to other than the paint film.

Color

For Use On

Resistance

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

Manufacturing Instructions or Remarks

~~XXXXXX~~

Barium Meta Borat	11.2%
Inert Ingredients	88.8%
	100.0%

Date 1/15/68 Formula No. Y-1800-H

Product Endurance Self Cleaning Imperial White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment 53.9 %

Vehicle 46.1 %

100.0%

Pigment

Titanium Dioxide	16.4
Titanium Calcium	44.7
Zinc Oxide	13.4
Barium Meta Borate	21.0
Silica & Silicates	4.5
	100.0

2-2-68

Vehicle

Treated Soya & Linseed Oil	62.2
Mineral Spirits & Driers	37.8
	100.0

~~Y-1800~~ ~~861~~

GLD060513

Glidden Form 1109-1 Printed in U.S.A. (ROYALTY) C & R FORMULA **Page I**

Product **Endurance Self Cleaning Imperial White**

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
"This paint is made in two dispersions to give maximum grinding efficiency. However the 1st and 2nd dispersions may be combined if necessary:				
1st Dispersion (3-4 grind)	(48.95 Gallons)			
O-123	12.00	(93.3)		
F-190	11.00	(82.8)		
*E-481	(5.04)	140.0		
W-533	(1.92)	90.0		
W-134	(5.53)	150.0		
Grind to 3-4 and add				
O-123	6.00	(46.7)		
S-330	7.00	(45.5)		
E-168	0.09	(0.7)		Add slowly, mix well.
2nd Dispersion (4-5 grind)	(39.4 Gallons)			
O-131	7.00	(56.1)		
O-123	9.0	(69.9)		
E-342	1.20	(11.6)		
	(Continued on Page II)			
Yield:				

Standard Formula, Not to be taken from File.

Formula Number **Y-1800-H** PASE

Laboratory Number

R.M. Cost Date **1/15/68**

Mill **COWL** Grind **3-4**

NPVLA %Lead **-1**

Label Warning **11-62** METHOD

Wt./Gal. **12.4** **5-A-1**

Flash Pt. °F. **100**

N.V.Wt. **82.6%**

N.V.Vol. **67.9%**

Visc. F.B. **98-102** **4-C-1**

Visc. Red.

Reducer **S-330** Ratio

P.V.C. **33.5%** pH

Color **White** Match

Gloss **75** Method

Strainer

Container

Application **Brush**

AD/Bake **Overnight**

Recoat Time **48 hrs.**

Remark **Changed for easier manufacturing & dry stability.**

Formulator **Green/Southwick**

Approved by **S.T.B.**

GLD060514

Glidden Form 1209-1 Printed in U.S.A. *(ROYALTY) C & R FORMULA Page II

Product Endurance Self Cleaning - Imperial White

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Continued from Page I				
C-978	0.82	(6.8)		
E-846	(1.56)	30.0		
W-616	(3.20)	110.0		
W-134	(5.54)	150.0		
369-WA-16	(0.08)	1.1		
Grind to a 4-5 and add:				
O-123	4.00	(31.1)		
S Ø-330	7.00	(45.5)		
E-396	(0.15)	5.0		Mix Well
Letdown material may be added to letdown tank or used as mill wash (11.88 Gallons)				
S-330	7.90	(51.3)		
S-48	3.60	(23.8)		
E-324	0.13	(1.0)		
E-380	0.25	(2.0)		
Yield	100.01	1244.6		

Formula Number Y-1800-H

Laboratory Number

R.H. Cost Date 1/15/68

Mill CONT. Grind

NPVLA Lead

Label Warning METHOD

Wt./Gal.

Flash Pt. °F.

N.V.W.

N.V.Vol.

Visc. F.S.

Visc. Red.

Reducer Ratio

P.V.C. pH

Color Match

Gloss Method

Strainer

Container

Application

AD/Bake

Recoat Time

Remarks

Formulator Green/Southwick

Approved by S.T.B.

GLD060515

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

CLASS	301.123	722.901		
CODES				

DESCRIPTORS (20 spaces-limit)

Trade Name: Customer

Substrate and Treatment

End Use

Specifications

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

Resins: This paint is resistant to the deteriorating action of molds (mildew) and ~~xxxxx~~ bacteria & to disfigurement of the surface by molds. No claim is made for preservative action to other than the paint film. Y Pf Test

Color:

For Use On:

Resistance:

Manufactured at Plants: #1-2-5-6-11-12-14-15-16-17

Manufacturing Instructions or Remarks

~~xxxxxxx~~

Barium Meta Borat	11.6%
Inert Ingredients	88.4%
	100.0%

Date 1/15/68 Formula No. X-1800-?

Product Endurance Self Cleaning Imperial White

Label Warning #11-62 NPDA

ANALYSIS

Pigment	33.5 %
Vehicle	66.1 %
	100.0%

Pigment

Titanium Dioxide	33.[illegible]
Titanium Calcium	44.[illegible]
Zinc Oxide	13.[illegible]
Barium Meta Borate	21.[illegible]
Silica & Silicates	4.[illegible]
	100.[illegible]

2-2-68

Vehicle

Treated Soya & Linseed Oil	62.[illegible]
Mineral Spirits & Driers	37.[illegible]
	100.[illegible]

X-1800 [illegible]

GLD060516

Glidden Form 1109-1 Printed in U.S.A. (ROYALTY) C & R FORMULA Page I

Product Endurance Self Cleaning Imperial White

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
This paint is made in two dispersions to give maximum grinding efficiency. However the 1st and 2nd dispersions may be combined if necessary:				
1st Dispersion (3-4 grind)		(48.95 Gallons)		
O-123	12.00	(93.3)		
F-190	11.00	(82.8)		**Destroy copy
*E-481	(5.04)	140.0		dated 1/15/68
W-533	(1.92)	90.0		
W-134	(5.63)	150.0		
Grind to 3-4 and add				
O-123	6.00	(46.7)		
S-330	7.00	(45.5)		
E-168	0.09	(0.7)		Add slowly, mix well.
2nd Dispersion (4-5 grind)		(39.4 Gallons)		
O-131	7.00	(56.1)		
O-123	9.0	(69.9)		
E-342	1.20	(11.6)		
Continued on Page II				
Yield				

Standard Formula Not to be taken from File

Formula Number Y-1800-H

Laboratory Number

R.M. Cost Date 2/6/68

Mill COOL Grind 3-4

NPVLA Bkgnd -1

Label Warning 11-62

		METHOD
Wt./Gal.	12.4	5-A-1
Flash Pt. °F.	100	
N.V. Wt.	82.6%	
N.V. Vol.	67.9%	
Visc. F.B.	98-102	4-C-1
Visc. Red.		
Reducer	S-330 Ratio	
P.V.C.	33.5% pH	
Color	White Match	
Gloss	75 Method	
Sheen		
Container		
Application	Brush	
Ad. Beka	Overnight	
Reaction Time	48 hrs.	

Remarks: Changed for easier manufacturing & dry stability.

Formulator Green/Southwick

Approved by S.T.B.

GLD060517

Glidden Form 1109-I Printed in U.S.A. (ROYALTY) C & R FORMULA Page II

Product Endurance Self Cleaning - Imperial White

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Continued from Page I				
C-978	0.82	(6.8)		
E-846	(1.56)	30.0		
W-616	3.20	110.0		
W-134	(5.54)	150.0		
369-WA-16	(0.08)	1.1		
Grind to a 4-5 and add:				
O-123	4.00	(31.1)		
S-330	7.00	(45.5)		
E-396	(0.15)	5.0		Mix Well
Letdown material may be added to letdown tank or used as mill wash (11.88 Gallons)				
S-330	7.90	(51.3)		
S-348	3.60	(23.8)		
E-324	0.13	(1.0)		
E-300	0.25	(2.0)		
Yield:	100.04	1244.6		

Formula Number Y-1800-H

Laboratory Number

R.M. Cost Date 2/6/68

Mill COWL Grind

NPVLA %Lead

Label Warning

	METHOD
Wt./Gal.	
Flash Pt. °F.	
N.V.W.	
N.V.Vol.	
Visc. F.B.	
Visc. Red.	
Reducer Ratio	
P.V.C. pH	
Color Match	
Gloss Method	
Strainer	
Container	
Application	
AD/Bake	
Recoat Time	
Remarks	

Formulator Green/Southwick

Approved by S.T.B.

GLD060518

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

CLASS	301.121	722.901			
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

Royalty — Yes [A] No [ ] Silicone — Yes [ ] No [ ]

Resins: This paint is resistant to the deteriorating action of molds (mildew) and xxxx bacteria & to disfigurement of the surface by molds. No claim is made for preservative action to other than the paint film.

Colors

For Use On

Resistance

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

Manufacturing Instructions or Remarks

Barium Meta Borate	11.2#
Inert Ingredients	88.8#
	100.0#

Cambridge, Ohio, Ecuador, Guatemala, Indianapolis, Lebanon, Peru, Portland, Reliance, Texas, Union Springs, Sweden, W. Indies

2-28-68 (6)

Date 1/15/68 Formula No. V-1800-H

Product Endurance Self Cleaning Imperial White

Label Warning #11-62 MFVLA

ANALYSIS

Pigment	53.9 %
Vehicle	46.1 %
	100.0%

Pigment

Titanium Dioxide	16.4%
Titanium Calcium	44.7%
Zinc Oxide	13.4%
Barium Meta Borate	21.0%
Silica & Silicates	4.5%
	100.0%

2-6-68

Vehicle

Treated Soya & Linseed Oil	62.2%
Mineral Spirits & Driers	37.8%
	100.0%

V-1800 — 861

GLD060519

(ROYALE) C & R FORMULA

Endurance Self Cleaning - Imperial White

Formula Number T-1800

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	DRY WEIGHT	MANUFACTURING INSTRUCTIONS
R-134	(11.0)	300.0	24.2	Grind
R-564	(3.20)	110.0	8.9	Not to
R-533	1.92	90.0	7.2	
R-401	5.04	140.0	11.3	
R-506	(1.90)	20.0	2.7	
R-973	0.82	8.8	0.5	
R-542	1.20	31.6	0.9	These two items
369-BA-16	0.00	1.1	0.1	should be added
R-526	0.25	5.0	0.5	after a 4-5 grin
R-103	0.09	0.7	0.7	is obtained &
				then ground for 1
R-125	31.00	891.0	19.3	
R-290	11.00	82.8	6.7	Must be used in
R-131	7.80	56.1	4.5	grind.
R-130	21.00	182.7	11.4	
R-248	3.60	83.8	1.8	Horsepower only.
				Must be added
R-124	0.13	1.0	0.1	under Cowles
R-180	0.25	2.0	0.2	agitation.
	100.01	1294.6	100.0	

Grind: Time 70 minutes
Grind: Changed for better grind.
Finished: Green/Sunkist
Approved by: EF

GLD060520

Glidden Form 1109-1 Printed in U.S.A. (ROYALTY) C & R FORMULA

Product: Endurance Self Cleaning - Imperial White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT
H-134	(11.07)	300.0	24.2
W-624	(3.20)	110.0	8.9
U-533	(1.92)	90.0	7.2
**B-481	(5.04)	140.0	11.3
E-846	(1.56)	30.0	2.4
C-978	0.82	(6.8)	0.5
K-342	1.20	(11.6)	0.9
369-MA-16	(0.08)	1.1	0.1
Z-396	(0.15)	5.0	0.5
*I-168	0.09	(0.7)	0.7
O-123	31.00	(241.0)	19.3
T-190	11.00	(82.8)	6.7
O-131	7.00	(56.1)	4.5
S-330	21.90	(142.7)	11.4
S-348	3.60	(23.8)	1.8
B-324	0.13	(1.0)	0.1
B-280	0.25	(2.0)	0.2
Yield	100.01	1244.6	100.0

MANUFACTURING INSTRUCTIONS

Standard Formula
Not to be removed from File.

These two items should be added after a 4-5 grind is obtained & then ground for 10 min.

Must be used in grind.

*WAREHOUSE ONLY. Must be added under cooler agitation.

Formula Number: Y-1800-J
Laboratory Number:
R.M. Cost: Date: 4/15/68
Mill: Pebl-Mase Grind: 4-5
Scale: Leuk -1
NPVCA Label Warning: 11-62 METHOD
Wt./Gal.: 12.4# 5-A-1
Flash Pt. °F.: 100
N.V.W.: 82.6%
N.V.Vol.: 67.9%
Visc. F.S.: 98-102 4-C-1
Visc. Red.:
Reducer: S-330 Ratio
P.V.C.: 33.5% pH
Color: White Match
Gloss: 75 Method
Strainer:
Container:
Application: Brush.
Air/Bake: Overnight
Recoat Time: 48 hours
Remarks: Changed for better grind.
Formulator: Green/Southwick
Approved by: WT

GLD060521

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

CLASS	301.121	722.901	
CODES			

DESCRIPTORS (20 spaces-limit)

Trade Name: Customer

Substrate and Treatment:

End Use: No Change In Analysis

Specifications:

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

Resins: This paint is resistant to the deteriorating action of molds (mildew) and bacteria & to disfigurement of the surface by molds. No claim is made for preservative action to other than the paint film.

Color:

For Use On:

Resistance:

Manufactured at Plants:

Manufacturing Instr.:

Active Ingredient:
Barium Meta Borate 11.2%
Inert Ingredients: 88.8%
100.0%

Mfg. plants: #1-2-3-6-11-12-14-15-16-17

Date 4/15/68 Formula No. Y-1800-2

Product: Endurance Self Cleaning Imperial White

Label Warning: #11-62 NFVLA

ANALYSIS

Pigment	53.9%
Vehicle	46.1%
	100.0%

Pigment

Titanium Dioxide	16.4%
Titanium Calcium	44.7%
Zinc Oxide	13.4%
Barium Meta Borate	21.0%
Silica & Silicates	4.5%
	100.0%

Vehicle

Treated Soya & Linseed Oil Mineral Spirits & Driers	62.2%
	37.8%
4-20-68	100.0%

Y-1800 861

GLD060522

Glidden Form 1105-1 Printed in U.S.A. 3/67

C & R FORMULA

Product: Endurance Self Cleaning - Imperial White (ROYALTY)

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
These raw materials should be loaded in order listed.				
O-123	21.00	(163.2)		
F-190	11.00	(82.8)		
O-131	7.00	(56.1)		
E-342	(1.20)	11.6		
E-380	(0.25)	2.0		
369-WA-16	(0.08)	1.1		
C-978	(0.82)	6.8		
R-846	(1.56)	30.0		
M-624	(3.20)	110.0		
W-533	(1.92)	90.0		
#9 E-481	(5.08)	140.0		
M-134	(11.07)	300.0		
Grind to a 4-5 grind and add.				
O-123	11.00	(77.8)		
S-330	14.00	(91.4)		
E-396	(0.15)	5.0		Mix well for 10 min. on Cowles.
E-168	(0.09)	0.7		
The following may be used as Mill Wash or Letdown				
S-330	7.90	(51.3)		
S-148	3.60	(23.8)		
E-324	(0.13	0.1		Letdown Only.
Yield:	100.01	1244.6		

Standard Formula not to be taken from File

Formula Number	Y-1800-J		
Laboratory Number			
R.M. Cost	Date 4/15/68		
Mill Cowles	Grind 4-5		
NPVLA %Lead	-1		
Label Warning 11-62			METHOD
Wt./Gal. 12.4#			5-A-1
Flash Pt., °F. 100			
N.V.W. 82.6%			
N.V.Vol. 67.9%			
Visc. F.B. 98-102 KU			4-C-1
Visc. Red.			
Reducer S-330	Ratio		
P.V.C. 33.5%	pH		
Color White	Match		
Gloss 75	Method		
Strainer			
Container			
Application Brush			
AD/Sale Overnight			
Recoat Time 48 hours.			
Remarks: Changed for better grind.			
Formulator Green/Southwick			
Approved by WT			

GLD060523

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

CLASS CODES			
CLASS	301.121	722.901	
CODES			

DESCRIPTORS (20 spaces-limit)

Trade Name: Customer

Substrate and Treatment:

End Use: No Change In Analysis

Specifications:

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

Resins: This paint is resistant to the deteriorating action of molds (mildew) and bacteria & to disfigurement of the surface by molds. No claim is made for preservative action to other than the paint film.

Color:

For Use On:

Resistance:

Manufactured at Plants:

Manufacturing Instructions:

Active Ingredient:

Barium Meta Borate	11.2%
Inert Ingredients:	88.8%
	100.0%

Mfg. plants: #1-2-5-8-11-12-14-15-16-17

Date 4/15/68 Formula No. Y-1800-3

Product Endurance Self Cleaning Imperial White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment	53.9%
Vehicle	46.1%
	100.0%

Pigment

Titanium Dioxide	16.4%
Titanium Calcium	44.7%
Zinc Oxide	13.4%
Barium Meta Borate	21.0%
Silica & Silicates	4.5%
	100.0%

Vehicle

Treated Soya & Linseed Oil	62.2%
Mineral Spirits & Driers	37.8%
4-22-68	100.0%

Y-1300 861

GLD060524

Spidder Form 1109-1 Printed in U.S.A. **{ROYALTY}** C & R FORMULA

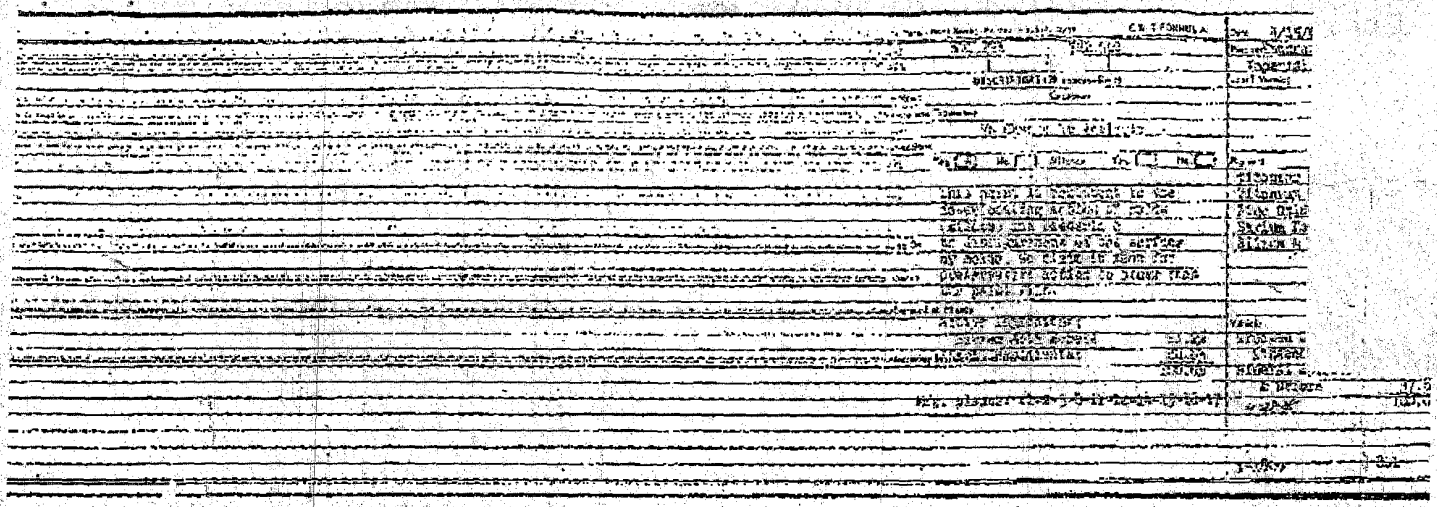
Product: Endurance Self Cleaning - Imperial White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
These raw materials should be loaded in order listed.				
O-123	21.00	(163.2)		
F-190	11.00	(82.8)		
O-131	7.00	(56.1)		*Destroy copy dated 4/15/68
E-342	(1.20)	11.6		
E-380	(0.25)	2.0		
369-WA-16	(0.08)	1.1		
C-978	(0.82)	6.8		
E-846	(1.56)	30.0		
W-624	(3.20)	110.0		Standard Formula
W-533	(1.92)	90.0		
** E-481	(5.04)	140.0		
W-134	(11.07)	300.0		from file.
Grind to a 4-5 grind and add:				
O-123	11.00	(77.8)		
S-330	14.00	(91.4)		
E-396	(0.15)	5.0		Mix well for 10 min. on Cowles.
E-168	(0.09)	0.7		
The following may be used as Mill Wash or Letdown				
S-330	7.90	(51.3)		
S-348	3.60	(23.8)		
E-324	(0.13	0.1		Letdown Only.
Yield:	100.01	1244.6		

Formula Number	Y-1800-J
Laboratory Number	
R.M. Cost	Date 4/26/68*
Mill	Cowles Grind 4-5
NPVLA	Head -1
Label Warning	11-62 METHOD
Wt./Gal.	12.4# 5-A-1
Flash Pt. °F.	100
N.V./Wt.	82.6%
N.V. Vol.	67.9%
Visc. F.B.	98-102 KU 4-C-1
Visc. Red.	
Reducer	S-330 Ratio
P.V.C.	33.5% pH.
Color	White Match
Gloss	75 Method
Strainer	
Container	
Application	Brush
AD/Bake	Overnight
Recoat Time	48 hours.
Remarks	Changed for better grind.
Formulator	Green/Southwick
Approved by	WT

GLD060525



GLD060526

Glidden Form 1109-1 Printed in U.S.A. (ROYALTY) C & R FORMULA

Product: Endurance Self Cleaning - Imperial White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-134	(11.07)	300.0	24.2	
W-617	(3.08)	100.0	8.0	
W-533	(1.92)	90.0	7.2	
** E-481	(5.04)	140.0	11.3	
N-439	(0.89)	20.0	1.6	
E-846	(1.01)	20.0	1.6	
C-978	(0.61)	4.8	0.38	
E-342	(1.20)	11.6	0.93	
369-WA-36	(0.09)	1.1	0.09	
* (E-396	(0.36)	5.0	0.40)	These two items
(E-168	(0.10)	0.7	0.06)	should be added
				after a 4-5 grind
O-123	30.99	(240.8)	19.4	is obtained &
P-190	11.01	(82.8)	6.68	then ground for
O-131	7.96	(64.0)	5.12	10 min.
S-330	20.83	(135.4)	10.9	
S-348	3.58	(23.8)	1.9	*Must be added
				under Cowles
E-324	(0.13)	1.0	0.08	agitation.
E-380	(0.26)	2.0	0.16	
Yield:	100.13	1243.0	100.0	

Formula Number: Y-1800-K

Laboratory Number: (BASE)

R.M. Cost: Date: 8/26/68

Mill: Pebl-Mbse Grind: 4-5

NPVLA: Lead: -1

Label Warning: 11-62

		METHOD
Wt/Gal.	12.4#	5-A-1
Flash Pt.	100	
N.V.W.	82.6%	
N.V.Vol.	68.3%	
Visc. F.B	94-102 KU	4-C-1
Visc. Red.		

Reducer: S-330 Ratio:

P.V.C. 33.3% pH:

Color: White Match:

Gloss: 75 Method:

Strainer: 150 Finex

Container:

Application: Brush

AD/Bake: Overnight

Recoat Time: 48 hrs.

Remarks:

Change for better grind & flow

Formulator: Green/Southwick

Approved by: STB

GLD060527

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

CLASS CODES				
CLASS	301.121	722.901		
CODES				

DESCRIPTORS (20 spaces-limit)

Trade Name: Customer

Substrate and Treatment

End Use

Specifications

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

Resins

Color: Gloss

For Use On

#30 (Woodland) 8-27-68

Resistance

Panama 4-3-70 ⓪

Manufactured at Plants #1-2-5-8-11-12-14-15-16-17 9-5-68 ⓪

-30

#30 (Myco) 1-7-69

Manufacturing Instructions or Remarks

Active Ingredients

Barium Meta Borate	11.2%
Inert Ingredients	88.8%
	100.0%

Date 8/26/68 Formula No. Y-1800-K

Product Endurance Self Cleaning - Imperial White

Label Warning #11-62 NPVIA

ANALYSIS

Pigment	53.6 %
Vehicle	46.4 %
	100.0%

Pigment

Titanium Dioxide	15.0%
Titanium Calcium	44.6%
Zinc Oxide	13.4%
Barium Meta Borate	21.0%
Silica & Silicates	6.0%
	100.0%

Vehicle

Treated Soya & Linseed Oil	62.5%
Mineral Spirits & Driers	37.5%
	100.0%

Y-1800 868

GLD060528

Glidden Form 1109-1 Printed In U.S.A. 12/67

C & R FORMULA (ROYALTY)

Product: Endurance Self Cleaning - Imperial White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
O-123	30.99	(240.8)	19.4	
F-190	11.01	(82.8)	6.68	
O-131	7.96	(64.0)	5.12	
E-342	(1.20)	11.6	0.93	
E-380	(0.26)	2.0	0.16	
369-WA-16	(0.09)	1.1	0.09	
C-978	(0.61)	4.8	0.38	
E-846	1.01	20.0	1.6	
W-612	3.08	100.0	8.0	
W-533	1.92	90.0	7.2	
** E-481	5.04	140.0	11.3	
N-439	0.69	20.0	1.6	
W-134	11.07	300.0	24.2	
S-330	14.00	(91.4)	10.9	Mix well at least
E-396	(0.36)	5.0	0.4	10 min. on
E-168	(0.10)	0.7	0.06	Cowles.
S-330	6.83	(44.0)		May be used as
S-348	3.58	(23.8)	1.9	Mill Wash
E-324	(0.13)	1.0	0.08	
Yield	100.13	1243.0	100.0	

Standard Color Tint Pattern

Formula Number	Y-1800-K	
Laboratory Number		(BASE)
R.M. Cost	1.80	Date 8/26/68
Mill	Cowles	Grind 4-5
NPVLA	% Lead -1	
Label Warning	1-62	METHOD
Wt./Gal.	12.4	5-A-1
Flash Pt. °F	100	
N.V.Wt.	82.6%	
N.V.Vol.	68.3%	
Visc. F.B.	94-102 KU	4-C-1
Visc. Red.		
Reducer	S-330	Ratio
P.V.C.	33.3%	pH
Color	White	Match
Gloss	75	Method
Strainer	150 Finer	
Container		
Application	Brush	
AD/Bake	Overnight	
Recoat Time	48 hrs.	
Remarks	Type of Anatase changed for better grind & flow.	
Formulator	Green/Southwick	
Approved by	STB	

GLD060529

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

CLASS	301.121	722.901		
CODES				

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

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

Resins

Color Gloss

For Use On

#30 (Haverhill) 8-27-68

Resistance

#30 (Engelhard) 12-30-68

#30 (Meyers) 1-3-69

Manufactured at Plants #1-2-5-8-11-12-14-15-16-17 9-3-68 ③

#30

Manufacturing Instructions or Remarks

Active Ingredient:

Barium Meta Borate	11.2%
Inert Ingredients:	88.8%
	100.0%

Date 8/26/68 Formula No. Y-1800-K

Product Endurance Self Cleaning - Imperial White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment	53.6 %
Vehicle	46.4 %
	100.0%

Pigment

Titanium Dioxide	15.0%
Titanium Calcium	44.6%
Zinc Oxide	13.4%
Barium Meta.Borate	21.0%
Silica & Silicates	6.0%
	100.0%

Vehicle

Treated Soya & Linseed Oil	62.5%
Mineral Spirits & Driers	37.5%
	100.0%

Removed 4-3-70 ⑧

Y-1800 868

GLD060530

GLIDDEN-DURKEE FORM 1509-1 PRINTED IN U.S.A. 11-66

C & R FORMULA

(ROYALTY)

Product ENDURANCE SELFCLEANING IMPERIAL WHITE

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
0175	30	234	18.78	0175 MAY BE
F190	11	82.7	6.64	REPLACED WITH A
0139	1	8.11	0.65	75-25 BLEND OF
*E342	1.21	11.6	0.93	0123 AND 0131 BY
*E380	0.51	4	0.32	VOL.
*369WA16	0.09	1.1	0.09	
*C978	0.61	4.8	0.39	
*E846	1.01	20	1.61	
*W533	1.91	90	7.22	
*W617	3.16	100	8.03	
*W134	11.07	300	24.08	
*E481	5.04	140	11.24	
*N439	0.85	20	1.61	
GRIND TO 3=4 AND ADD				
0175	9.49	74	5.94	MIX WELL AT LEAST
S330	13.79	91	7.3	10 MIN. ON
*E396	0.36	5	0.4	COWLES
*E168	0.18	1.3	0.1	
MAY BE USED AS MILL WASH OR TO ADJUST GRIND				
S330	5.16	34.08	2.74	
S348	3.53	23.8	1.91	
*E324	0.13	1	0.08	
Yield	100	1245.93	100	

Standard Formula. Not to be taken from File.

Formula Number Y1800L

Laboratory Number

R.M. Cost 1.81 Date 03/23/6

Mill COWLES Grind 4=5

NPVLA %Load =1

Label Warning 11=62

	METHOD
Wt./Gal. 12.46	5-A-1
Flash Pt., °F. 100	
N.V.W. 83.8	
N.V.Vol. 70.7	
Visc. F-B98-102KU	4-C-1

Visc. Red.

Reduce S330 Ratio

P.V.C. 32.59 pH

Color WHITE Match

Gloss 75 Method

Strainer 150FINEX

Container

Application BRUSH/ROLL OR SPRAY

AD/Bake OVERNIGHT

Recoat Time 48HRS.

Remarks CHANGED TO USE OIL BLEND

Formulator GREEN/SOUTHWICH

Approved by TOMC/STB

GLD060531

FORM 1081 (BACK) PRINTED IN U. S. A. 11-68

C & R FORMULA

CLASS	301.121	722.901		
CODES				

DESCRIPTORS (20 spaces—limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No XX Silicone Yes ☐ XX ☐

Resins

Color — Gloss

For Use On

Resistance

Manufactured at Plants

Manufacturing Instructions or Remarks

Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.

Active Ingredient:

Barium Meta Borate	11.2%
Inert Ingredients:	88.8%
	100.0%

Resistant to Mildew On The Paint Film Only.

Mfg. plant: #1-2-5-8-11-12-14-15-16-17

5-15-70 Q

#30 Capstan 5-18-70 Q

Date 4/9/70 Formula No. Y-1800-L

Product Endurance Self Cleaning-Imperial White

Label Warning #11-62 NPVIA

ANALYSIS

Pigment	53.6 %
Vehicle	46.4 %
	100.0%

Pigment

Titanium Dioxide	15.0%
Titanium Calcium	44.6%
Zinc Oxide	13.4%
Barium Meta Borate	21.0%
Silica & Silicates	6.0%
	100.0%

C. Rice Final Mixer Foreman 2-24-70

Vehicle

Treated Soya & Linseed Oil	62.5%
Mineral Spirits & Driers	37.5%
	100.0%

Y-1800 868

GLD060532

GLIDDEN-DURKEE FORM 1105-1 PRINTED IN U.S.A. 11-68

C & R FORMULA

(ROYALTY)

Product ENDURANCE SELFCLEANING ONE COAT HOUSE PAINT

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
0175	39.49	308	24.72	0175 MAY BE
F190	11	82.7	6.64	REPLACED WITH A
0139	1	8.11	0.65	75-25 BLEND OF
S330	15	99	7.95	0123 AND 0131 BY
S348	3.53	23.8	1.91	VOL.
*E342	1.21	11.6	0.93	
*E380	0.51	4	0.32	
*369WA16	0.09	1.1	0.09	
*C978	0.61	4.8	0.39	
*E846	1.01	20	1.61	
*W533	1.91	90	7.22	
*W617	3.16	100	8.03	
*W134	11.07	300	24.08	
*E481	5.04	140	11.24	
*N439	0.85	20	1.61	
GRIND TO 3-4 AND ADD				
*E396	0.36	5	0.4	GRIND FOR 15 MIN.
*E168	0.18	1.3	0.1	BEFORE DUMPING
S330	3.87	25.52	2.05	MAY BE USED AS
*E324	0.13	1	0.08	MILL WASH
Yield	100	1245.93	100	

Standard Formula. Not to be taken from File.

Formula Number Y13001

Laboratory Number

R.M. Cost 1.81 Date 04/09/70

Mill PEB/MHSE Grind 4-5

NPVLA Seed = 1

Label Warning 11-62 METHOD

Wt./Gal. 12.46 5-A-1

Flash Pt. °F. 100

N.V.Wt. 83.79

N.V.Vol. 71.7

Visc. F.S.9B-102KU 4-C-1

Visc. Red.

Reducer S330 Ratio

P.V.C. 32.14 pH

Color WHITE Match

Gloss 75 Method

Strainer 150FINEX

Container

Application BRUSH/ROLL OR SPRAY

AD/Bake OVERNIGHT

Recoat Time 48HRS.

Remarks CHANGED TO USE OIL BLEND

Formulator BREEN/SOUTHWICK

Approved by TOMC/STS

GLD060533

FORM 5180-1 (BRICK) PRINTED IN U. S. A. 11-38

C & R FORMULA

CLASS	901,121		722,901		
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

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

Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.

Resins

Color — Gloss

For Use On

Active Ingredient:

Barium Meta Borate	11.2%
Inert Ingredients:	88.8%
	100.0%

Resistance

Manufactured at Plants

Resistant to Mildew On The Paint Film Only.

Manufacturing Instructions or Remarks

Mfg. plant: #1-2-5-8-11-12-14-15-16-17

5-15-70 ✓

#30 Engstrom 5-18-70 ✓

Date 4/9/70 Formula No. Y-1800-I

Product Endurance Self Cleaning-Immerial White

Label Warning #11-62 NPVLA

ANALYSIS

Pigment 53.6 %

Vehicle 46.4 %

100.0%

Pigment

Titanium Dioxide	15.0%
Titanium Calcium	44.6%
Zinc Oxide	13.4%
Barium Meta Borate	21.0%
Silica & Silicates	6.0%
	100.0%

C. Lee Lint Mexico

Corrected: 7-24-70

Vehicle

Treated Soya & Linseed Oil	62.5%
Mineral Spirits & Driers	37.5%
	100.0%

Y-1800 868

GLD060534

ENDURANCE SELFCLEANING WHITE Y1800M Gyal

12/01/71

*	V2385	17.33	130.00	10.54
	0123	12.99	100.00	8.11
	F190	11.00	82.70	6.71
*	E342	1.21	11.60	0.94
*	E380	0.61	4.00	0.32
*	C970	0.61	4.80	0.39
*	E846	1.01	20.00	1.62
*	W617	3.16	100.00	8.11
*	W535	1.91	90.00	7.30
*	N121	6.64	150.00	12.16
*	E48	5.04	140.00	11.35
*	W83	2.62	90.00	7.30
*	N439	0.85	20.00	1.62
*	N220	2.33	50.00	4.05
*	369WA16	0.09	1.17	0.09
	0123	18.18	140.00	11.35
GRIND TO 3-4 AND ADD				
	S330	10.49	69.23	5.61
MIX WELL AT LEAST 10 MIN ON COWLES MAYBE USED AS MILL ASH				
*	E398	0.36	5.90	0.41
*	E168	0.18	1.30	0.11
MIX WELL AT LEAST 1/ MIN ON COWLES				
	S348	3.41	23.00	1.86
*	E325	0.08	0.66	0.05
		100.00	1233.74	100.00

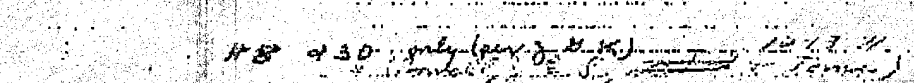
Standard Formula, NOT to be taken from File.

GREEN/OES KMF/STD

GLD060535

Y1000M

CHANGED TO REPLACE W134



BRUSH ROLL SPRAY			16HRS	48HRS
4-5	98-102KU	75MIN		
BRUSH		6-10MIL 16HRS		COWL
12.35			11-62	>100 <1
S530				
			85.5	
		0-DRB	TARB	

GLD080536

GLIDDEN-DURKEE Form 1333 Printed in U.S.A. 1/71

C&R FORMULA ☐ ROYALTY

Product: ENDURANCE SELFCLEANING WHITE

Customer: Titan Color

Formula No. 52000M

Lab No.

Date 11-20-72

Haz.	* ADD BY WEIGHT CODE NUMBER	100 GALLON BATCH GALLONS	POUNDS	% BY WEIGHT	Rev.	MANUFACTURING INSTRUCTIONS
	[illegible]	17.33	130.00	10.47		
	[illegible]	12.99	100.50	8.06		
	[illegible]	11.00	82.70	6.66		
	[illegible]	1.21	11.60	0.93		
	[illegible]	0.35	2.70	0.22		
	[illegible]	0.61	4.80	0.39		
	[illegible]	1.01	20.00	1.61		
	[illegible]	5.39	110.00	8.86		- Can substitute 1# W617 to replace 1.1# W-616
	[illegible]	1.91	90.00	7.25		
	[illegible]	6.64	150.00	12.09		
	[illegible]	5.04	140.00	11.28		
	[illegible]	2.62	90.00	7.25		
	[illegible]	3.26	70.00	5.64		
	[illegible]	0.09	1.10	0.09		
	[illegible] TO 4-5 (AMD AID)					
	[illegible]	10.18	140.00	11.28		
	[illegible]	10.34	68.24	5.50		
	[illegible]	0.34	5.00	0.40		
	[illegible]	0.18	1.30	0.10		
	[illegible] AT LEAST 10 MIN ON COWLES					
	[illegible]	5.41	23.00	1.85		MAYHE USED AS MILL WASH
	[illegible]	0.08	0.65	0.05		Changes: ☐ R.M. ☐ Mfg. ☐ Phys.
	YIELD	100.00	1241.1	100.00		Formulator GREEN/JES Approved MT/STH

Standard Formula, Not to be taken from File.

2.17.72

GLD060537

Form 1333 (back) Printed in U.S.A.

CAR FORMULA

Formula or Lab No. Y1800M

FINISH

CODES

Trade Name

DESCRIPTORS (20 spaces - Unit)

Customer

Grade

Spec

Finish ☐ Dull ☐ Hi Silicone ☐ Yes ☐ No

Resins

Resistance

Mfd. at Plants

CHANGED TO REPLACE W134

L. Ken Tomblin Lowdon
Myers + Sons 2-15-72

1-2-3-8-11-12-14-15-16-17-30 - 2-17-72

d 30 Emgleton

Correct per W. Myers 2-18-72 (E)

CUSTOMER APPLICATION

CONDITIONS BRUSH NULL SPRAY

QUALITY CONTROL

STD. COLOR 4-5	FULL BODY VISCOSITY 98-102KU	METHOD	STD. GLOSS 75MIN.	METHOD	COLOR MATCH DO NOT SHADE		AD/BAKE 16HRS		RECOAT TIME 48HRS
APPLICATION BRUSH		FILM THICKNESS 6-10MIL	A.D. OR BAKE 16HRS	MISC. TESTS			COLOR INSTRU.		SAG STD.
STORAGE 12+M	RED. VISCOSITY STD.	METHOD	RED. RATIO	TINT TEST		STD. PENCIL HARD	LABEL WARNING 11-62	LINER	MILL COIL
REDUCER S330	SUBSTRATE		STD. IMPACT METHOD		SPECIAL INSTRUCTIONS			FLASH PT. >100	LEAD <1
CATALYST	POT LIFE		PH - A.NO.	COLOR GARD.	CURE TIME	STD. NV	TYPE FILTER	CLEANLINESS	

P.V.C. 54.8% Vol. 70.3 Lbs./Gal. = 11. Lbs/Gal. Wt./Gal. = 11.0#1 Lbs/Gal. 12

GLD060538

Form 1393 PRINTED IN U.S.A. 1-72

CAR FORMULA

Product ENDURANCE SELFCLEANING WHITE ☐ ROYALTY

Customer

Formula No. Y1800-N

Lab No.

Date 05/19/72

Tint Color

	ADD BY WEIGHT CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT
*	V2385	17.33	130.00	10.45
	0123	12.99	100.00	8.03
	F190	11.00	82.70	6.64
*	E542	1.21	11.60	0.93
*	E382	0.35	2.70	0.22
*	C973	0.72	5.70	0.46
*	E846	1.27	25.00	2.01
*	W616	3.39	110.00	8.84
*	W533	1.91	90.08	7.23
*	N121	6.64	150.00	12.05
*	E481	5.04	140.00	11.25
*	W830	2.62	90.00	7.23
*	N228	3.25	70.00	5.62
*	369WA16	0.09	1.10	0.09
GRIND TO 4-5 AND ADD				
	0123	18.18	140.00	11.25
	S330	9.97	65.82	5.29
*	E396	0.36	5.00	0.40
*	E168	0.18	1.30	0.10
MIX WELL AT LEAST 10 MIN ON COWLES				
	S348	3.41	23.00	1.85
*	E325	0.08	0.66	0.05
	YIELD	100.00	1244.6	100.00

MAYBE USED AS MILL WASH

Changes: ☐ R.M. ☐ Mfg. ☐ Phys.

Formulator GREEN/JES Approved BMT/STR

Standard Formula NOT to be taken from File.

GLD060539

Resins

Resistance Y-Solvent List

Mfd. for Plants #1-2-5-8-11-12-14-15-16-17-30 - 5-24-72

CUSTOMER CONDITIONS	APPLICATION	AD/BAKE	RECOAT TIME
	BRUSH ROLL SPRAY	16HRS	48HRS

QUALITY CONTROL

STD. GRIND	FULL BODY VISCOSITY	METHOD	STD. GLOSS METHOD	COLOR MATCH	COLOR INSTRU.	SAG STD.
4-5	98-102KU		75MIN	DO NOT SHADE		

APPLICATION	FILM THICKNESS	A.D. OR BAKE	MISC. TESTS	LINER	MILL
BRUSH	6-10MIL	16HRS			COWL

STD. WT./G	RED. VISCOSITY STD.	METHOD	RED. RATIO	TINT TEST	STD. PENCIL HARD.	LABEL WARNING	FLASH PT.	LEAD
12.45						11-62	>100	.48

REDUCER	SUBSTRATE	STD. IMPACT METHOD	SPECIAL INSTRUCTIONS
S2330			

CATALYST	POT LIFE	PH - A.NO.	COLOR GARD.	CURE TIME	STD. NV WEIGHT	TYPE FILTER	CLEANLINES
					83.9		

P.V.C. 34.2	NV/Vol 20.5	Sq. Ft./Dry Mil = 0	RMS/Sq. Ft./Dry Mil 6.000	RMS/Gal. 1.93

GLD060540

Form 1351 Printed in U.S.A. 11/71 C&R FORMULA ☐ ROYALTY

Product ENDURANCE SELFCLEANING OVENS Formula No. Y2486-19-CH

Customer Tint Color Lab. No.

Date 2/12/72

LEAD FREE

Key	ADD BY WEIGHT CODE NUMBER	100 GALLON BATCH GALLONS	POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
*	Y2385	17.86	180.00	10.48	
	0123	12.89	100.00	6.06	
	F190	11.01	82.70	6.67	
*	E173	0.69	6.00	0.44	
*	E382	0.38	2.70	0.22	
*	C978	0.72	5.70	0.46	
*	E846	1.27	25.00	2.02	
*	N616	3.39	110.00	8.87	
*	N533	1.91	90.00	7.26	
*	N121	6.65	150.00	12.09	
*	E481	5.09	140.00	11.29	
*	N830	2.62	90.00	7.26	
*	N828	3.25	70.00	5.64	
*	569WA16	0.09	1.10	0.09	
	GRIND TO 3-4	AND MIX			
	0123	13.04	140.00	11.29	
	S330	10.37	67.41	5.45	MAYBE USED AS MILL WASH
*	E399	0.16	1.50	0.12	
*	E168	0.18	1.30	0.10	
	MIX WELL AT	LEAST 10	MIN ON	COWLES	
	S346	3.47	23.00	1.86	
*	E390	0.37	3.00	0.24	
*	E503	0.12	1.00	0.08	

CONTAINS LESS THAN .06% LEAD DO NOT ADD MATERIALS CONTAINING LEAD

Changes: ☐ R.M. ☐ Mfg. ☐ Phys.

GLD060541

Y1800-N-CH

Spec in U.S.A. 11/71 | C&R FORMULA | Formula or Lab No.

CHANGED TO LEAD FREE

DESCRIPTORS (20 spaces - limit) | Customer

Yes | No | Silicone | Yes | No

APPLICATION: BRUSH ROLL SPRAY				AD/BAKE: 16HRS		RECOAT TIME: 48HRS		
FULL BODY VISCOSITY: 98-102KU	METHOD	STD. GLOSS METHOD: 75MIN		COLOR MATCH: DO NOT SHADE		COLOR INSTRU.		SAG
	FILM THICKNESS: 6-10MIL	A.D. OR BAKE: 16HRS	MISC. TESTS				LINING	MILL: CO
RED. VISCOSITY STD.	METHOD	RED. RATIO TINT TEST		STD. PENCIL HARD		LABEL WARNING: 11-62		FLASH PT: >100
	SUBSTRATE		STD. IMPACT METHOD		SPECIAL INSTRUCTIONS			
	POT LIFE		pH & A. NO.	COLOR GARD.	CURE TIME	STD. NV WEIGHT: 54.7	TYPE FILTER	CLEA

NV Vol 71.5 | Sq. Ft./Dry Mil 0 | RMS/Sq. Ft./Dry Mil 0.000 | RMS/Col. 0.00

GLD060542