480-E 20M 10-47 PRINTED IN U.S.A. (S)

FORMULA RECORD

Goods [illegible] Formula No. Y 1217 M

Consistency [illegible] Laboratory No.

For use on [illegible] Cost Class. Date [illegible]

Customer Strainer Grind [illegible]

Mill [illegible]

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
[illegible]		[illegible]	[illegible]		
[illegible]			[illegible]		
[illegible]					
[illegible]					
[illegible]	[illegible]				
[illegible]	[illegible]				
[illegible]			[illegible]		
[illegible]			[illegible]		
Yield					

Is agitator required

Wt. or Be [illegible] Temp.

Viscosity [illegible] Temp.

Viscosimeter [illegible]

Color [illegible] Sheen [illegible]

Non Vol. Flash Pt.

Watch for

Reducer [illegible]

Amt. for brushing [illegible]

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in [illegible]

A. D. to recoat in [illegible]

Remarks:

Standard Formula. Not to be taken from File.

DISCONTINUED

SEE Y 1217 M

11/30/48

Formulator [illegible]

N12383

GLD060082

430-E 20M 10-47 PRINTED IN U.S.A. (8)

FORMULA RECORD

Goods

Consistency

For use on

Customer

Formula No.

Laboratory No.

Cost Class. Date

Strainer Grind

Mill

Code Number	One Gallon Batch Plats	Lbs.	Ozs.	Large Batch Gals.	Lbs.

FORMULA RECORD

Goods: Ultra White Synthetic Enamel — Formula No. Y-1217-N

Consistency: Liquid V.T. — Laboratory No.

For use on: Wood — Cost Class. — Date 10-31-42

Customer — Strainer — Grind

Mill Ball

Code Number	One Gallon Batch Pints	Lbs.	Oza.	Large Batch Gals.	Lbs.
L-133		3	8		33
TR-333			1		5
CH-185			3/4		4 1/2
V-870	5 7/8			70 1/2	
S-43	1 7/8			22 1/2	
D-268C	1/4			3	
D-75			2	1 1/2	
D-15			2	1 1/2	
181-F-6	Trace				
93-R-221	"				
	Dealers formula dated 11-30-42				
	Standard Formula Not to be taken out				
Yield				106 Gal	

Is agitator required

Wt. or Be 16 — Temp.

Viscosity 105-115 — Temp.

Viscosimeter #4 Ford

Color — Sheen

Non Vol. — Flash Pt.

Watch for Livered Grind

Reducer Mineral Spirits

Amt. for brushing as required

Spraying — Tumbling

Dipping — Drip time

Bake — Temp.

Air dries in 4 hrs

A. D. to recoat in Overnight

Remarks:

DISCONTINUED
11217 O-4/8/49
SEE 1 gal 4/8/49
Chart only

Formulator H G

GLD060084

4100-E EOM 4-48 PRINTED IN U.S.A. AP

FORMULA RECORD

Good Ultra White Japalac Enamel.

Consistency Liquid

For use on

Customer

Formula No. Y-1217-Q

Laboratory No.

Cost Class. Date 4-8-49

Strainer Grind 7-8

Mill Pebble or Roller

Is agitator required

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-163		3			264
W-1			4		22
CH-185			1		5-1/2
M-333			1		5-1/2
V-870	6			66	
O-268	1/4			2-3/4	
S-90	1/4			2-3/4	
S-443	1-1/2			16-1/2	
D-75			2	1-3/8	
D-15			2	1-3/8	
CH-243			1/8	11 Liq oz	
181-A-6	trace				3/4
93-N-227	"				trace
Yield				98	

Changed to improve non chalking and non skinning

Standard Formula
Active
Discontinued
See

Wt. or Be 10# Temp.

Viscosity 100-110" Temp

Viscosimeter #4 Cup

Color Sheen

Non Vol. Flash Pt. 100-F

Match for Y-1217-N Std panel

Reducer Mineral Spirits

Amt. for brushing

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in 4 hrs

A. D. to recoat in Overnite

Remarks:

Formulator H G Hayward

GLD060085

400-ESDM 4-49 PRINTED IN U.S.A. AP

FORMULA RECORD

Good Ultra White Japalac Enamel

Consistency Liquid

For use on

Customer

Formula No. Y-1217-0 ~~Ft.~~

Laboratory No.

Cost Class. Date 4-8-49

Strainer Grind 7-8

Mill Pebble or Roller

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-163		3			264
W-1			4		22
CH-165			1		5-1/2
K-333			1		5-1/2
GRV-2072 (V872)	7			77	
0-268	1/4			2-3/4	
S-90	1/4			2-3/4	
S-43	1/2			5-1/2	
D-75			2	1-3/8	
D-15			2	1-3/8	
CH-243			1/8	11 Loz	
181-A-6	trace				3/4
93-R-227	"				trace

Changed to improve non chalking and non skinning

~~For Cleveland use only~~

Supersedes Y1217-0 dated 4-8-49

Yield 98

Is agitator required

Wt. or Be 10 Temp.

Viscosity 100-110 Temp.

Viscosimeter #4 Cup

Color Sheen

Non Vol. Flash Pt.

Match for Y-1217-N Std panel

Reduce Mineral Spirits

Amt. for brushing as needed

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in 4 hrs

A. D. to recoat in. Overnite

Remarks:

Standard formula

A- -C

Discontinued

See

Formulator H G Hayward

GLD060086

1307 7000 2-49 Printed in U. S. A. L.F.

FORMULA RECORD

DISCONTINUED

SEE Y-1217-P 5-4-50

Goods Ultra White Japalac Enamel — Formula No. Y-1217-O

Consistency Liquid — Laboratory No.

For use on — Cost Class. — Date 7/13/49

Customer — Strainer — Grind 7-8

Mill Pebble or Tube — Wt. or Be 10

Is agitator required?

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
W-163		3			264
W-1			4		22
CH-185			1		5-1/2
M-333			1		5-1/2
GRV-2072	7			77	
O-268	1/4			2-3/4	
S-90	1/4			2-3/4	
S-43	1/2			5-1/2	
D-75			2	1-3/8	
D-15			2	1-3/8	
CH-243			1/8	11 Loz.	
181-A-6	trace				3/4
93-R-227	"				trace

Changed to improve non chalking and non skinning

This formula supersedes 1217-O dated 4-8-49

Yield				88	

Temp.

Viscosity 100-110 Temp.

Viscosimeter #4 Cup

Color — Sheen

Non Vol. — Flash Pt.

Match for Y-1217-N Std panel

Reducer Mineral Spirits

Amt. for brushing as needed

Spraying — Tumbling

Dipping — Drip time

Bake — Temp.

Air dries in 4 hrs

A. D. to recoat in Overnite

Remarks:

Standard Formula
Not to be taken
from File

Formulator H G Hayward

GLD060087

FORMULA RECORD

Goods Ultra White Japalac Xp. Formula No. Y-1217-0

Consistency Date 3-9-51 Laboratory No.

For Use On Cost Classification

CODE NUMBER	ONE GALLON BATCH GALS.	LBS.	OZS.	100 GALLON BATCH GALS.	LBS.	OZS.	700 GALLON BATCH GALS.	LBS.	OZS.
W-153-B					317			2219	
W-1					8.8			61	
CH-185					6.6			46	
W-333					6.6			46	
V-870				66			462		
C-268				2.75			19¼		
S-90				2.75			19¼		
G-43				11½			80½		
D-75				1.375			9-3/5		
D-15				1.375			9-3/5		
CH-243					13 lig.				91
181-A-6					.9			6	3
93-B-227					traces				
TDL-581				1			7		
D-30				5			35		
YIELD									

MANUFACTURING SPECIFICATION

GRIND 7-3

KIND OF MILL Pebble or

STRAINER Roll

WEIGHT PER GALLON 12.00

LIGHT BAUME TEMP.

HEAVY BAUME TEMP.

VISCOSITY 100-110 TEMP. 80

VISCOSIMETER #4 Ford

FLASH POINT

IS AGITATOR REQUIRED

REMARKS

Aligned to Olive, formula 4-6-49.

Card made 3-9-51 to be used during shortage of V-869

TORONTO

GLD060088

GLIDDEN-DURKEE PRINTED IN U.S.A. FROM

Goods Ultra White Japalac Enamel — FORMULA RECORD — FORMULA NO. Y-1217-P

CONSISTENCY Liquid — LABORATORY NO.

FOR USE ON — COST CLASS. — DATE 5/4/51

CUSTOMER — STRAINER — GRIND 7-8

MIL [Pebble or XXXXXXXXXX Roller) — WT. OR BC 10#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-163		3			264	
W-1			4		22	
CH-185			1		5-1/2	
M-333			1		5-1/2	
V-872	7			77		
O-320	1/4			2-3/4		
S-90	1/4			2-3/4		
S-43	1/2			5-1/2		
D-75			2	1-3/8		
D-15			2	1-3/8		
CH-243			1/8	11	Loz	
181-A-6	Trace					
93-R-227	"					
Changed to use O-320						
YIELD				98		

Staple to Formula Card

ABSORPTION RECORD

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

VISC. RED. TEMP.

VISCOSIMETER #4 Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1217-O Panel

REDUCE Mineral Spirits

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hours

A. D. TO RECOAT IN Over-nite

REMARKS:

FORMULATOR J.E. Southwick 25-4

GLD060089

GLIDDEN 600-H. PRINTED IN U.S.A. FRONT

FORMULA RECORD

Japalac Enamel - Ultra White

FORMULA NO. V-1217-R

BODY Liquid

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 6/15/52

FOR USE ON

STRAINER GRIND 7-8

CUSTOMER

MILL Roller or WT. OR SE 10

XXXX

GLIDDEN ... PRINTED IN U.S.A. 1-50M

FORMULA RECORD

Japalac Enamel - Ultra White

FORMULA NO. Y-1217-S

GOODS

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 8/5/52

FOR USE ON

STRAINER Roll or Pebble MILL GRIND 7-8 WT. OR FE 9-7/8

CUSTOMER

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-183		3				
W-1			4			
W-128			4			
CH-185			1/2			
M-333			1			
*V-869	6-5/8					
O-320	1/4					
S-43	1-1/8					
D-15			2	Lbs/gal.		
D-75			2	" "		
CH-269			1/8	" "		
181-A-6		Trace				
93-R-227		"				
YIELD						

Standard Formula Not to be Taken from File

IS AGITATOR REQUIRED

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

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1217-0 Panel

REDUCER Mineral Spirits as -

AMT. FOR BRUSHING needed.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN Overnight

REMARKS:

*When V-869 is not available use formula Y-1217-R which contains P-470-60 "Extra Light".

FORMULATOR Southwick

25-8-4

GLD060091

GOLDEN 880-F PRINTED IN U.S.A. FRONT

FORMULA RECORD

QUICK Japalac Enamel - Ultra White

CONSISTENCY

FOR USE ON

CUSTOMER

FORMULA NO. Y-1217-T

LABORATORY NO.

COST CLASS. DATE 2/10/5

STRAINER GRIND 7-8

MILL Pebble or WT. OR RE 9.8#

IS AGITATOR REQ. Roller

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1217-0 Panel

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-163		3				
W-128			4			
M-333			3/4			
CH-186			1/2			
V-869	2-1/4					
S-43	3/4					
Grind approx. 40 hrs. to 7-8 in Pebble Mill and add:						
V-869	4-3/8					
O-320	1/4					
S-43	3/8					
VM-432			1/2	Loz.		
VM-530			1/2	"		
CH-269			1/8	"		
181-A-6						
93-R-227	To std. color.					
YIELD						

REDUCER S-43 as needed

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4 hrs.

A. D. TO RECOAT IN Overnight

REMARKS:

Changed to eliminate W-1

Standard Formula. Not to be taken from file.

FORMULATOR Southwick

28-8-7

GLD060092

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

FORMULA RECORD

FORMULA NO. Y-1217-T (EMER-GSNC)

GOODS JAPALAC ENAMEL - ULTRA WHITE

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 10/27/55

FOR USE ON

STRAINER GRIND 7-8

CUSTOMER

MILL Pebble or WT. OR BE 9.7#

IS AGITATOR REQUIRED Roller

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-163		2	12			
W-128			2			
A-333			3/4			
CH-185			1/2			
V-869	2-1/4					
S-43	1/2					
Grind	and add:					
V-869	4-1/2					
O-320	1/4					
S-43	1/2					
VM-432			1/2			
VM-530			1/2			
CH-269			1/8			
181-A-6	To color std.					
93-R-227						
YIELD	1.09					

Standard Formula. Not to be taken from File.

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1217-O Panel

REDUCER S-43 as needed

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4 hrs.

A. D. TO RECOAT IN Overnight

REMARKS:

To be used only during titanium shortage.

FORMULATOR J.E.S.

OK PCH 28-9

GLD060093

GLIDDEN 4406-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOOD: Japalac - Ultra White

CONSISTENCY

FOR USE ON FOR READING ONLY

CUSTOMER

FORMULA NO. Y-1217-U(Experimental)

LABORATORY NO.

COST CLASS. DATE 6/27/57

STRAINER GRIND 7-8

MILL Pebble WT. OR RE 9.8#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-170					270	
W-128					17	
M-333					5-1/2	
CH-185					4	
67-T-209-A				2.5		
V-869				76.8		
S-43				11.2		
VM-432						45 Loz
VM-530						45 Loz
CH-269						11 Loz.
181-A-6	Trace					
93-R-227	Trace					
YIELD				100		

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. - TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1217-U

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN

REMARKS:

Standard Formula.
Not to be taken
from File.

FORMULATOR J.E. Southwick

8-9

GLD060034

GLIDDEN 400-H PRINTED IN U.S.A. 5ROM

FORMULA RECORD

GOODS Japalac-Ultra White
CONSISTENCY
FOR USE ON
CUSTOMER

FORMULA NO. Y-1217-U
LABORATORY NO.
COST CLASS. DATE 1/2/57
STRAINER GRIND 7-8
MILL Pebble WT. OR BE 9.8#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-170		3			270	
W-128			3		17	
W-333			1		5-1/2	
VM-185			3/4		4	
V-869	3/4			8-1/2		
S-43	3/4			8-1/2		
Grind to 7-8 Overnight						
V-869	5-7/8			66-1/2		
S-43	3/8			4-1/4		
O-320	1/4			2-3/4		
VM-432			1/2			45 Loz
VM-530			1/2			45 Loz
CH-269			1/8			11 Loz
181-A-6	To color					
93-R-227	std.					
	1-3-57					
YIELD	1.1			100		

Used 5 gals of this batch to make 100 gals

IS AGITATOR REQUIRED
VISC. F.B. 90-100" TEMP.
VISC. RED. TEMP.
VISCOSIMETER #4 Ford Cup
COLOR SHEEN
NON VOL. FLASH PT.
MATCH FOR New color standard
Y-1217-U
REDUCER S-43
MAT. FOR BRUSHING F.B.
SPRAYING 15%-S-342 TUMBLING
DIPPING DRIP TIME
BAKE TEMP.
AIR DRIES IN 4-6 hrs.
A. D. TO RECOAT IN 24 hrs.
CATALYST
AMT. OF CATALYST
POT LIFE TEMP.
STABILITY AT
STABILITY AT 135°F
STABILITY AT °F
REMARKS Changed for non chalking.
FORMULATOR J.E. Southwick
OK PCH 28-8-8

GLD060095

GLIDDEN REG. U PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. V-1217-W

GOODS Japalac - Ultra White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 10/14/

FOR USE ON

STRAINER GRIND 7-8

CUSTOMER

MILL Pebble WT. OR BE 9.8

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-170		9			270	
[illegible]			3		17	
[illegible]	Mix before		5/8		3.5	
[illegible]	adding		5/16	Less .22		
[illegible]33	to mill.		1		5.5	
[illegible]95			3/4		4	
[illegible]60	1-1/4			15		
[illegible]89	7/8			10		
Grind &	add					
[illegible]09	5-1/2			61.6		
[illegible]65	3/8			4.2		
T-[illegible]42			1/2	.35		
[illegible]530			1/2	.35		
T-243			1/8	.09		
T-A-6	Trace					
T-E-227	Trace					
YIELD	1.1			100		

Standard formula just to be taken from File

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #5 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR T-1217-W

REDUCER S-33

AMT. FOR BRUSHING T.A.

SPRAYING 15% S-33 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN 24 hrs.

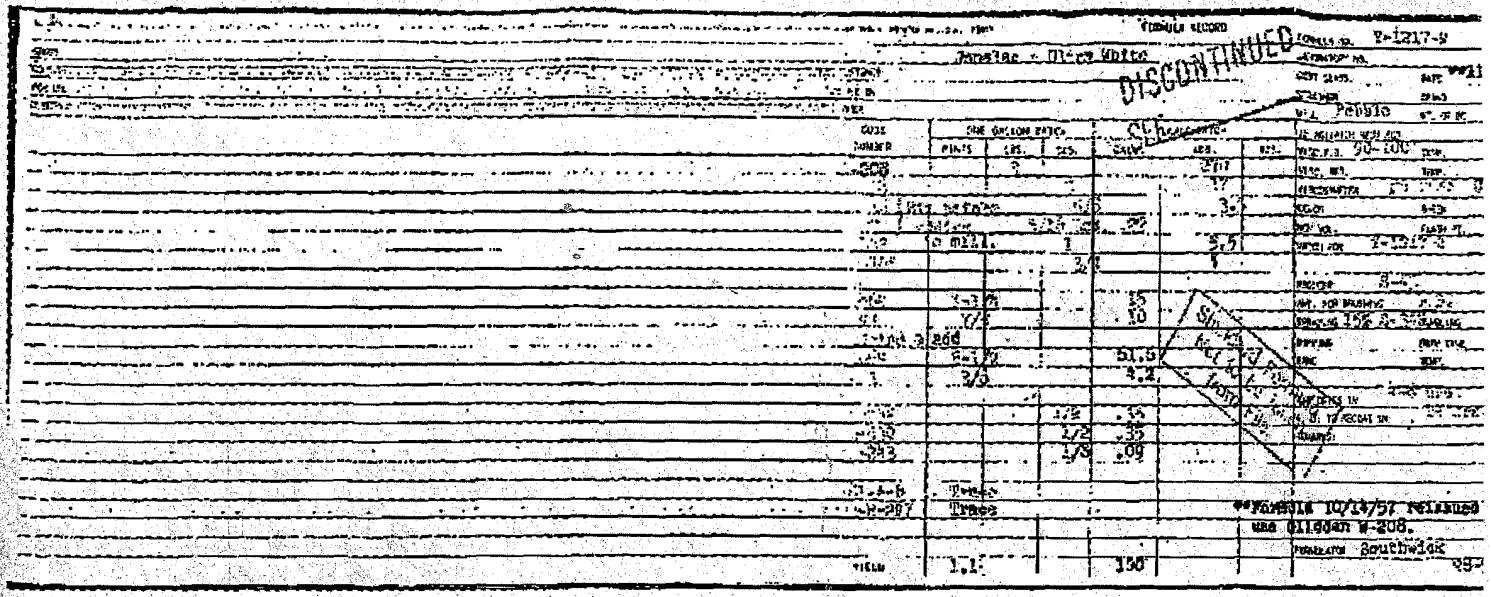
REMARKS:

Changed for sag control and better dry.

FORMULATOR Southwick

28-9-8

GLD060096


FORMULA RECORD
Jamaica - Olive White
DISCONTINUED
Pebble
90-100
5.5
1 mil.
Trace
Trace
1.1
130
**FORMULA 10/14/57 released
was 011604m W-208.
Southwick

GLD060097

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-U
		PIGMENT 29	%	Japalac-
		VEHICLE 71	%	Ultra White
		100		1/2/57
		PIGMENT		"Y" Trade Sales Test 1-7-57
		Titanium Dioxide	94%	
		Zinc Oxide	6%	Ecuador 2-16-57
			100%	Jos. Pierson 2-27-57
				Peru 3-18-57
				Lehalte 5-29-57
				Chile 6-12-57
				Brazil 6-21-57
		VEHICLE		
		Soya Alkyd Resin	51%	
		Mineral Spirits & Driers	49	
			100%	
		Y-1217	751	

GLD060098

GLIDDEN 410-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1217-X

NAME Jspalac Enamel - Ultra White

LABORATORY NO.

CONSISTENCY

DISCONTINUED

COST CLASS. DATE 2/5/58

FOR USE ON

STRAINER GRIND 7-8

CUSTOMER

Y1217A Similar

MILL Pebble WT. OR BE. 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
V-208		2	12		252	
V-128			3		17	
V-333			3/4		4.3	
CH-185			1/2		2.9	
V-218) Mix before			1/2		2.9	
S-72) addition to			1/4	.18		
mill			Loz.			
V-869	1-1/4			14.5		
S-43	7/8			10		
Grind and Add:						
V-869	5-1/2			63		
S-43	3/8			4.3		
VK-432			1/2 Loz.	.39		
VM-530			1/2 Loz.	.39		
CH-243			1/8 Loz.	.10		
181-A-6	Trace					
93-R-227	Trace					
YIELD	1.09			100		

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1217-U

REDUCER

AMT. FOR BRUSHING

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN 24 hrs.

REMARKS:

Changed for lower cost.

Color Y-1217

FORMULATOR J.E. Southwick

OK PCH 28-9-9

GLD060099

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-X
		PIGMENT 27.5	%	Japalac Enamel
		VEHICLE 72.5	%	Ultra White
		100.0%		2/5/58
		PIGMENT		"Y" Enamel Lot 2-5-58
		Titanium Dioxide	93.6%	
		Zinc Oxide	6.4	Cuba - 5-5-58
			100.0%	Chile 6-23-58
				Ecu. Paint via S. Fran 6-27-58
				Colombia 6-25-58
				Guay-Ecuador 7-16-58
				West Indies 11-11-58
				Guatemala 11-17-58
		VEHICLE		
		Soya Alkyd Resin	54.5%	TRS - Honduras Ltd.
		Mineral Spirits & Driers	45.5	" 3-11-60
			100.0%	Panama (Ltd.) 3-14-60
		Y-1217 852		

GLD060100

GLIDDEN 450-R PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Japalac Enamel - Ultra White

CONSISTENCY

FOR USE ON: This Production Must Not Contain Lead

CUSTOMER

FORMULA NO. Y-1217-A

LABORATORY NO.

COST CLASS. DATE 5/12/60

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(7.20)	252	
W-128				(.36)	17	
X-333				(.32)	4.3	
GH-185				(.33)	2.9	
W-218) Mix before				(.19)	2.9	
S-72) adding to mill				.18	(1.2)	
W-869 (14.5 gal. in grind)				77.50	(608)	
S-43 (10 gals. in grind)				14.30	(93.7)	
D-83				.78	(5.4)	
VM-432				.39	(3.7)	
VM-523				.39	(3.1)	
GH-359				.15	(1.15)	
181-A-16	Trace					
93-R-227	Trace					
YIELD				102.09	995.35	

Standard Formula
Not to be taken
from File

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1217-U

REDUCER

AMT. FOR BRUSHING

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN 24 hrs.

REMARKS:
Changed to deter seeding

Y-401
5052

FORMULATOR J. E. Southwick

GLD060101

COST	DATE	ANALYSIS	CUSTOMERS Y-1217-A
		PIGMENT 27.5 %	Japalac - Ultra White
		VEHICLE 72.5 %	X - Exc. List 5-18-60
		100.0%	5/12/60
		PIGMENT	
		Titanium Dioxide 93.6%	No. 1 Label Warning
		Zinc Oxide 6.4	
		100.0%	
			No change in analysis.
			Keating (Utica) 5-18-60
			Nasrah (Portland) 5-18-60
			Jap Mexico 9-14-60
		VEHICLE	
		Soya Alkyd Resin 54.5%	Ecuador (E) 10-7-60
		Mineral Spirits & Driers 45.5	Peru 4-30-61
		100.0%	Angola (Lagunas) 7-25-61 (4)
		Costa Rica 6-7-62	Haiti (Texas) 8-2-61 (#1)
			Mexico (C) 11-17-61 (3)
			Japan (Tokyo) 3-20-62
		Y-1217 852	Haiti (Cayes) 4-5-62 (2)

GLD060102

GLIDDEN 326-A PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Jandlac Enamel - Ultra White
CONSISTENCY:
FOR USE ON: This Production Must Not Contain Lead
CUSTOMER:

FORMULA NO. Y-1217-A
LABORATORY NO. (Atlanta only)
COST @ Pallets DATE 6/26/51
STRAINER Sweco GRIND 7-8
MILL Peddle WT. OR SP. GR. 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
205				(7.20)	855	
238				(.36)	17	
233				(.32)	8.3	
185				(.31)	2.9	
218) Mix before				(.19)	2.9	
72) adding to mill				.18	(1.2)	
264 (14.5 gal. in grind)				77.50	(608)	
53 (10 gals. in grind)				14.30	(93.7)	
524				.4	(3.2	
526				.39	(3.7)	
858				.39	(3.1)	
359				.15	(1.15)	
A-15	Trace					
R-227	Trace					
YIELD				102.09	995.#	

Standard Formula, Not to be taken from File.

IS AGITATOR REQUIRED
VISC. F.B. 90-105" TEMP.
VISC. RED. TEMP.
VISCOSIMETER #4 Ford Cup
COLOR SHEEN
NON VOL. FLASH PT.
MATCH FOR Y-1217-B
REDUCER
WAT. FOR BRUSHING
SPRAYING S-382 TUMBLING
DIPPING DRIP TIME
BAKE TEMP.
AIR DRIES IN 4-6 hrs.
A. D. TO RECOAT IN 24 hrs.

REMARKS:
Changed to defer seeding

33# Mill Base

FORMULATOR J. E. Smallwich

GLD060103

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	
		VEHICLE %	#1 (Southwick - Herzog - TMS) 6/21/
		PIGMENT	#8 (Houck-Atwood) 6/21/61
			#2 2-26-62 (1)
			#1 (Drew) 8-6-62
			#16-17 8-6-62
			#1 (Bx Y Enamel Lot) 8-8-62
		VEHICLE	
			#4-5-11-12-14-15 8-29-62

GLD060104

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

FORMULA RECORD

GOODS: Japalac Enamel - Ultra White

CONSISTENCY:

FOR USE ON: This Production Must Not Contain Lead

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

FORMULA NO.: Y-1217-B BAS

LABORATORY NO.: Tallate Driers

COST CLASS: DATE 9/6/62

STRAINER: GRIND 7-8

MILL: Pebble WT. OR SE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				7.20	252.0	
M-128				.36	17.0	
M-333				.32	4.3	
CH-185				.33	2.9	
M-218	Mix before			.19	2.9	
S-91	adding to mill			.20	1.4	
V-869	(14.5 gal. in grind)			77.50	(608.0)	
S-43	(10.0 gal. in grind)			13.0	84.4	
VM-524				.4	3.2	
VM-526				.39	3.7	
VM-523				.39	3.1	
CH-359				.15	1.15	
181-A-16	Trace					
93-R-227	Trace					
DISCONTINUED						
SEE Y-1217-C YIELD				100.4	984.0	

Standard Formula, Not to be taken from File.

all: Y-4101, Y-5058

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Full Gloss

NON VOL. 65% FLASH PT. 100° F

MATCH FOR Y-1217-U

REDUCER S-43 as needed

AMT. FOR BRUSHING

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN 24 hrs.

REMARKS: Reissued to use VM-523.

Mill Base	33%
PVC	17.3%
NV by Vol.	47.7%

FORMULATOR J. E. Southwick

GLD060105

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-B
		PIGMENT 27.5 %		Japalac - Ultra White
		VEHICLE 72.5 %		
		100.0%		
				9/6/62
		PIGMENT		
		Titanium Dioxide	93.6%	No. ~~1 Initial~~ Warning 11-62 NF
		Zinc Oxide	6.4	11-146
			100.0%	No change in analysis
				Eng. Y Enamel Test 9-13-62
				Plants # 1-2-4-5-8-11-12-14-15-16-17
				Schultz (for E.D.) p. 795 3-19-63
		VEHICLE		
		Soya Alkyd Resin	54.5%	Tentative 3-9-64
		Mineral Spirits & Driers	45.5	
			100.0%	
		Y-1217	852	

GLD060106

GLIDDEN 440-N PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1217-C BASE

GOODS Japalac Enamel - Ultra White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 3/21/63

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

STRAINER GRIND 7-8

JUSTOMER This Production Must Not Contain Lead

MILL Pebble WT. OR DE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
[illegible]-208				(7.31)	252.0	
[illegible]-128				(0.36)	17.0	
[illegible]-333				(0.31)	4.3	
[illegible]H-185				(0.33)	2.9	
V-218) Mix before				(0.19)	2.9	
S-91) adding to mill				0.21	(1.4)	
T-869(14.5 gal. in grind)				77.50	(608.0)	
S-43 (10.0 gal. in grind)				13.00	(84.4)	
VM-524	Standard Formula,			0.40	(3.2)	
VH-526	Not to be taken			0.40	(3.7)	
VM-523	from File			0.40	(3.1)	
CH-359				0.15	(1.15)	
359-WA-18				Trace		
359-WR-227				Trace		
4 x 5 mill - make 270 gallons enamel						
5 x 6 mill - make 530 gallons enamel						
YIELD				100.56	964.05	

IS AGITATION REQUIRED

VISC. F.B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full Gloss

NON VOL. 65.5% (WT) FLASH PT. 100°F

MATCH FOR Y-1217-U

REDUCER S-43 as needed

MAT. FOR BRUSHING

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

T. O. TO RECOAT IN 24 hrs.

REMARKS: Changed to use 369 bases.

Mill Base	33.6%
PVC	17.6%
NV by Vol.	48.4%

FORMULATOR J. E. Southwick

GLD060107

COST	DATE	ANALYSIS		CUSTOMERS
				F-1217-G
		PIGMENT 27.5 %		Jagalac - Ultra White
		VEHICLE 72.5 %		
		100.0%		
				3/22/63
		PIGMENT		
		Titanium Dioxide	99.6%	
		Zinc Oxide	0.4	
			100.0%	
				Warning No. 11-52 NPVA
				11/14/52
				Y Enamel List 3-29-6
		VEHICLE		#1-2-4-5-8-11-12-14-15-16-17
		Soya Alkyd Resin	54.5%	
		Mineral Spirits & Driers	45.5	#30 (Engatama) 5-10-63
			100.0%	
		Mexico 3-3-64 D		Italy 9-3-63
				Panama 9-25-63
				Fiji (Caporaso) 2-6-64 ③
				Jack Dayton 2-10-64 D
				Mexico 2-21-64
		F-1217	852	Guatemala 3-9-64 D

GLD060108

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

FORMULA RECORD

FORMULA NO. Y-1217-C

GOODS: Japalac Enamel - Ultra White

LABORATORY NO. (Sand Mill)

CONSISTENCY

COST CLASS

DATE 5/15/6

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

STRAINER

GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Sand

WT. OR BE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
PREMIX:						
[illegible]-869 (Premix viscosity				14.50	(112.5)	
VM-523 (should be 65-75 KU				0.40	(3.13)	
CR-185				(0.33)	2.90	
[illegible]W-208				(7.30)	252.0	
[illegible]W-128				(0.36)	17.0	
[illegible]S-43				8.00	(52.0)	
Disperse to a 7-8 grind, then add:						
[illegible]-869				60.24	(466.7)	
[illegible]-869)Mix on Cowles for				2.75	(21.4)	
S[illegible]-43)10-20 min. before				1.50	(9.6)	
S[illegible]-91)adding to batch or as				0.21	(1.45)	
[illegible]-218)4.66 Gals. EGL-6440)				(0.19)	2.90	
[illegible]-333				(0.31)	4.30	
[illegible]-43	Standard Formula			(3.50	(22.9)	
VAVM-524	Not to be taken			0.40	(3.20)	
VAVM-526				0.40	(3.69)	
UCH-359	from File.			0.15	(1.15)	
[illegible]369-WA-16				Trace		
[illegible]369-WR-22				Trace		
YIELD				100.55	976.82	

IS AGITATOR REQUIRED Yes

VISC. F. B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full

NON VOL. 65.8% FLASH PT. 100°F

MATCH FOR Y-1217-U Std.

REDUCER S-43

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hours.

A. D. TO RECOAT IN 24 hours.

REMARKS:

NV by Vol. 48.7%

PVC 15.6%

Mill Charge 30.9%

FORMULATOR J. E. Southwick

GLD060109

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 28.3 %	Y-1217-C
		VEHICLE 71.7 %	Japalac - Ultra White
		100.0%	5/15/68
		PIGMENT	
		Titanium Dioxide 93.7%	Warning No. 11-62 MPVM.A
		Zinc Oxide 6.3%	
		100.0%	No change in analysis
			Y Enamel Test 6-5-64 O
			#1 Lowest Close Tab-Cut-Pull
			#2-5-8-10-14-16-17
		VEHICLE	
		Soya Alkyd Resin 52.3%	
		Mineral Spirits & Driers 47.7	
		100.0%	
		Y-1217 462	

GLD060110

REORDER 460-M PRINTED IN U.S.A. FRONT

FORMULA RECORD See attached Sample Formula

FORMULA NO. Y-1217-C

GOODS Japalac Enamel - Ultra White

LABORATORY NO.

CONSISTENCY This Production Must Not Contain Lead.

COST CLASS

DATE 2/14/64

FOR USE ON

STRAINER

GRIND 7-8

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

MILL Pebble

WT. OR BE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				7.30	252.0	
W-128				0.36	17.0	
W-218	Mix before			0.19	2.9	
S-91	adding to mill			0.21	1.45	
M-333				0.31	4.30	
CH-185				0.33	2.90	
V-869	(14.50 gals. in grind			77.50	(600.6)	
S-43	(10.00 gals. in grind			13.00	(84.5)	
VM-523	DISCONT'D			0.40	3.13	
VM-524				0.40	3.20	
VM-526				0.40	3.69	
CH-359	SEE Y-1217-E			0.15	1.15	
369-WA-16				Trace		
369-WR-227				Trace		
4 x 5 Mill - Make 270 gallons.						
5 x 6 Mill - Make 530 gallons						
6 x 8 Mill - Make 1060 gallons.						
YIELD				100.55	976.82	

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full

NON-VOL. 65.8% FLASH PT. 100°F

MATCH FOR Y-1217-U Std.

REDUCER S-43

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hours.

A. D. TO RECOAT IN 24 hours.

REMARKS:

**Reissued to correct analysis.
Destroy copy dated 3/21/63.

NV by Vol. 48.7%

PVC 16.6%

Mill Base 33.0%

FORMULATOR J. E. Southwick

GLD060111

COST	DATE	ANALYSIS	CUSTOMERS Y-1217-C
		PIGMENT 28.3 %	Japalac - Ultra White
		VEHICLE 71.7 %	
		100.0%	2/14/6
		PIGMENT	Warning No. 11-6: MPVLA
		Titanium Dioxide 93.7%	
		Zinc Oxide 6.3%	Y-Enamel Test 2-18-64
		100.0%	#1-2-4-5-8-11-12-14-15-16-17
		[illegible]	Engstrom 2-18-64
			[illegible]
			[illegible]
		VEHICLE	
		Soya Alkyd Resin 52.3%	
		Mineral Spirits & Driers 47.7	Italy 3-25-64
		100.0%	
		Panama 8-26-64 (3)	Manila 3-31-64
		Puerto Rico 8-28-64	C. Rica 4-22-64 (3)
			Colombia 4-24-64 (3)
		U.C.B. (Book) 9-9-64 0	
			Curacao 4-27-64 (3)
		Guatemala 9-18-64	
		Y-1217 462	Peru 5-5-64 "
			Lebanon, Japan 6-20-64 "

GLD060112

GLIDDEN 486-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Japalac Enamel - Ultra White (Cleveland Only)

CONSISTENCY

FOR USE ON

CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1217-D

LABORATORY NO. (Sand Mill)

COST CLASS DATE 4/27/64

STRAINER GRIND 7-8

MILL Sand WT. OR SE 9.6#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Pre-Mix						
W-244				(7.00)	245.0	
W-128				(0.36)	17.0	
CH-185				(0.33)	2.9	
VM-523				0.40	(3.13)	
369-WA-16 (Weigh Carefully)				(0.08)	1.10	
RCR-6228				14.50	(112.4)	
S-43				8.00	(52.0)	
Disperse to a 7-8 grind, then add:						
RCR-6228				60.25	(467.0)	
S-43				3.50	(22.8)	
~~RCR-6405~~ 369-W-218				4.66	(35.4)	
M-333 per INS 6-2-64				(0.31)	4.3	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.60)	
CH-359				0.15	(1.15)	
MAKE 2000 GALLONS						
YIELD				100.34	971.07	

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP. 77°F

VISC. REQ. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full Glos

NONVOL. 65.1% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

THIN FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-7 hours

A. D. TO RECOAT IN Overnight

REMARKS:

NV by Vol. 48.5%

PVC 16.1%

Mill Base 30.5%

FORMULATOR J. E. Southwick

GLD060113

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT	%	Malaga Continued 4-1-64
		VEHICLE	%	
				# Pierce (Prod.) 5-12-64 per MS
		PIGMENT		
				#5 (Hmck) 5-25-64 per MS
				Stamped
				5-5 (1 copy) per MS 6-9-64
				Rebox (Fin. Sil.) per MS 6-19-64
				#5 (Kelly) Stamped 7-21-64 (3)
		VEHICLE		
			#30	(Draco) per MS 8-20-64
				Stamped
				L12 9-24-64 (2)

GLD060114

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

FORMULA RECORD

FORMULA NO. Y-1217-E BASE

GOODS Japalac Enamel - Ultra White

LABORATORY NO. (Emergency Only)

CONSISTENCY (Cleveland Only)

COST CLASS DATE 2/11/65

FOR USE ON

STRAINER GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Sand WT. OR BE 9.7#

IS AGITATOR REQUIRED

VISC. F. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Gloss

NON VOL. 65.6% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hours

A. D. TO RECOAT IN Overnight

REMARKS Cleveland special, changing from V-869 to V-869.

MV by Vol. 48.8%

PVC 17.1%

Mill Charge 31.1%

FORMULATOR V. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Pre-mix:	(Premix viscosity					
W--290	(should be 65-75 KU			(7.68)	265.0	
W--128	(Record viscosity &			(0.21)	10.0	
GRM-185	(temperature of pre-			(0.33)	2.90	
VM4-523	(mix.			0.40	(3.13)	
3699-NA-16	(Weigh carefully)			(0.08)	1.10	
V--869				14.50	(112.5)	
S--43				8.00	(52.0)	
	Disperse to a 7-8 grind, then add:					
V--869				59.60	(461.8)	
VV-869	Disperse on Cowles			2.76	(21.40)	
35-43	for 10-20 min. @ 1/4			1.50	(9.75)	
35-91	adding to batch -			0.21	(1.45)	
MW-218	same as 4.66 gals.			(0.19)	2.90	
M-2333	(369-W-218			(0.31)	4.30	
S--43				3.50	(22.8)	
VM--524				0.40	(3.20)	
VM--526				0.40	(3.69)	
CR--359				0.15	(1.15)	
X = Returned - all						
YIELD — Reboiled 2-9-65				100.22	979.07	

GLD060115

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-E (Special)
		PIGMENT 28.8 %		Jasolac Enamel - Ultra White
		VEHICLE 71.2 %		
		100.0%		(Cleveland Only)
		PIGMENT		
		Titanium Dioxide	96.5%	2/11/65
		Zinc Oxide	3.5%	
			100.0%	
				Warning No. 11-62 NFVLA
				Returned to Print List 2-18-65 Batch #1-30 only part A
		VEHICLE		
		Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	52.9%	
		Mineral Spirits & Driers	47.1%	
			100.0%	
		Y-1217	562	

GLD060116

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

Product	Japalac Enamel - Gloss White				Formula Number	V-1217-3 (Con	
Customer					Laboratory Number		
CODE NUMBER	100 GALLON BATCH		% BY WEIGHT	MANUFACTURING INSTRUCTIONS	R.M. Cost	Date	3/14/62
	GALLONS	POUNDS			Mill Cowles	Grind	7-8
V-863	16.00	(124.8)	12.8		% Lead .1		
W-290	(7.68)	265.0	27.3		Wt./Gal. 9.7#	Method	5-A-1
W-128	(0.11)	5.0	0.5	See V-1217-1 (Con't)	Flash Pt. °F. 100	Method	
CH-135	(0.33)	2.90	0.3	dated 3/30/62	N.V. Wt. 64.8%	Method	
VM-523	0.40	(3.13)	0.33	Disperse to 7-8 grind	N.V. Vol. 46.7%	Method	
				then add:	Visc. F.B. 90-100"	Method	4-A-1
M-333	(0.31)	4.30	0.44		Visc. Red.	Method	
369-WA-16	(0.08)	1.10	0.12	Weigh carefully	Reducer S-43	Ratio	
W-213	(0.19)	2.90	0.3	Pre-disperse on	P.V.C. 16.9%	pH	
S-91	0.21	(1.45)	0.16	Cowles or add as	Color White	Match	
V-863	2.76	(21.40)	2.2	4.66(35.4#) gallons			
S-43	1.50	(9.75)	1.0	369-W-218.	Gloss 86 Min.	Method	9-A-1
					Strainer		
V-863	58.10	(449.2)	46.1	Let-Down	Container		
S-43	11.50	(74.4)	7.6		Label Warning 11-62 NPVLA		
					Application		
VM-524	0.40	(3.20)	0.33				
VM-526	0.40	(3.69)	0.4		Cure Air Dry 6-7 hours		
CH-359	0.15	(1.15)	0.12		Recoat - Overnight		
					Remarks		
					Formulator J. E. Southwick		
Yield	100.12	973.67	100.0		Approved by S. T. Bovell		

Standard Formula taken off from File. Not to be

GLD060117

CLASS					
CODES					

DESCRIPTORS (20 spaces - limit)

Trade Name: Customer: Trade Sales

Substrate and Treatment: Japalac

End Use

Specifications: All Purpose

Royalty Yes ☐ No ☐ (A) Silicone Yes ☐ No ☐ (A)

Resins: Tall Oil Alkyd

Color: White Gloss: 86 min.

For Use On

Resistance

Manufactured at Plants: #1-2-4-5-8-11-12-14-15-16-17 ~70

sent 7-23-66

ANALYSIS

3/14/66 Pigment T-1217-E

Vehicle 27.9 %

72.1

Pigment 100.0%

Titanium Dioxide	97.3%
Zinc Oxide	2.7
	100.0%

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	51.2%
Mineral Spirits & Driers	48.8
	100.0%

Label Warning #11-62 MPVLA

No change in analysis

T-1217 4601

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

GLD060118

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

FORMULA RECORD

GOODS Japalac Enamel - Ultra White NO CHANGE FOOD USE

CONSISTENCY

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

CUSTOMER Less than 1% Lead

FORMULA NO. Y-1217-E (Pebble)

LABORATORY NO.

COST CLASS DATE 10/29/60

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 9.7#

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SH Full Gloss

NON VOL. 64.8% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-7 hours

A. D. TO RECOAT IN Overnight

REMARKS: Changed to improve gloss retention & whiter color.

NV by Vol. 48.7%

PVC 16.9%

Mill Charge 30.2%

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-290				7.68	265.0	
R-128				0.11	5.0	
CH-185				0.33	2.90	
YM-523				0.40	3.13	
369-WA-16	(WEIGH CAREFULLY)			0.08	1.10	
M-333	(Add at first let-down			0.31	4.30	
(W-218)	Can be added as			0.19	2.90	
(S-91)	4.66(35.4#) gallons			)0.21	(1.45)	
(V-863)	369-W-218 in grind			)2.76	(21.40)	
(S-43)	or to first let-down)			1.50	(9.75)	
V-863	(14 gallons in grind)			74.10	(574.0)	
S-43	(8 gallons in grind)			11.50	(74.4)	
YM-524				0.40	3.20	
YM-526				0.40	3.69	
CH-359				0.15	1.15	
YIELD				100.12	973.67	

GLD060119

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-E
		PIGMENT 27.0 %		Panalsa Enamel - Ultra White
		VEHICLE 73.1 %		
		100.0%		10/29/64
		PIGMENT		Harding No. 11-62 NOVA
		Titanium Dioxide	97.3%	
		Zinc Oxide	2.7	1 Enamel Lot 11-16-64
			100.0%	#1.30-2-4-5-6-7-8-9-10-11-12-13
				1 Tile, Enamel, 2-11-65 (V)
				Colombia
				Panama 1-12-65
		VEHICLE		Manila, Mexico, London 2-3-65
		Linoleic, Oleic, Linolenic,		Peru "
		Palmitic, Stearic +		
		Alkyd Resin 51.3%		Guatemala 2-8-65
		Mineral Spirits & Driers 48.0		
			100.0%	Lebanon 2-17-65
		#36 (Thornton 2-23-66		
				Italy 3-19-65 D
				Panama 5-6-65 D
				Cuba 5-11-65 (V)
				Ecuador 7-8-65
		Y-1217	4601	

GLD060120

C & R FORMULA
Builders Form 11804 Printed in U.S.A. 9/65

Product	Japalac Enamel - Ultra White	Formula Number	Y-1217-E (Con.
Customer		Laboratory Number	

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
Y-863	16.00	(124.8)		
CH-185	(0.33)	2.90		
VM-523	0.40	(3.13)		**Destroy copy
W-290	(7.68)	265.0		dated 3/14/66
W-123	(0.11)	5.0		Disperse to a 7-8
				grind then add:
M-333	(0.31)	4.30		
369-WA-16	(0.08)	1.10		Weigh carefully.
Y-863	58.10	(449.2)		Use enough to transfer
S-43	11.50	(74.4)		to let-down tank.
Y-863	2.76	(21.40)		Pre-disperse on Cowles
S-43	1.50	(9.75)		or add as 4.66 (35.4#)
S-91	0.21	(1.45)		gallons - 369-W-218.
W-218	(0.19)	2.90		
VM-524	0.40	(3.20)		
VM-526	0.40	(3.60)		
CH-359	0.15	(1.15)		
				Standard Formula. Not to be taken from File.
Yield	100.12	973.67		

R.M. Cost		Date	3/31/6
Mill	Cowles	Grind	7-6
% Load	-1		
Wt./Gal.	9.7#	Method	5-A-1
Flash Pt. °F.	100	Method	
N.V. Wt.	64.8%	Method	
N.V. Vol.	48.7%	Method	
Visc. F.B	90-100"	Method	4-A-
Visc. Red.		Method	
Reducer	S-43	Ratio	
P.V.C.	16.9 %	pH	
Color	White	Match	
Gloss	86 Min.	Method	9-A-1
Strainer			
Container			
Label Warning	11-62 NPVLA		
Application			
Cure	Air Dry 6-7 hours. Recoat: Overnight		
Remarks			
Formulator	J. E. Southwick		
Approved by	S. T. Bowell		

GLD060121

CLASS						
CODES						

DESCRIPTORS (20 spaces - limit)

Trade Name: Japalac Customer: Trade Sales

Substrate and Treatment:

End Use: All Purpose

Specifications:

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins: Tall Oil Alkyd

Color: White Gloss: 86 min.

For Use On:

Resistance:

Manufactured at Plants: #1-2-4-5-8-11-12-14-15-16-17-30
4-4-66

3/31/66 ANALYSIS Y-1217-E

Pigment 27.9 %

Vehicle 72.1 %

100.0%

Pigment

Titanium Dioxide	97.3%
Zinc Oxide	2.7
	100.0%

Puerto Rico 8-Lbs/Gal

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	51.2%
Mineral Spirits & Driers	48.8
	100.0%

Label Warning #11-62 NPVLA

No change in analysis

Y-1217 4601

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

GLD060122

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

FORMULA RECORD

FORMULA NO. Y-1217-E (Sand)

GOODS Japalac Enamel - Ultra White

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 10/29/64

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

STRAINER

GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Sand

WT. OR BE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
PRE-MIX:	(Pre-mix viscosity					
Y-290	(should be 65-75KU			(7.68)	265.0	
W-128	(Record viscosity			(0.11)	5.0	
GH-185	(& temperature of			(0.33)	2.90	
VM-523	(pre-mix.			0.40	(3.13)	
369-WA-16	(WEIGH CARREFULLY			(0.08)	1.10	
V-863				14.50	(112.4)	
S-43				8.00	(52.4)	
DISPERSE TO A 7-8 GRIND, THEN ADD:						
V-863				59.60	(461.6)	
S-43				3.50	(22.8)	
369-W-213				4.66	(35.4)	
M-333	Standard Formula			(0.31)	4.30	
VM-524	Not to be taken			0.40	(3.20)	
VM-526	from File.			0.40	(3.69)	
GH-359				0.15	(1.15)	
YIELD				100.12	973.67	

IS AGITATOR REQUIRED

VISC. F. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cu

COLOR White SHEEN Full Glos

NON-VOL 54.8% FLASH PT 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-7 hours.

A. D. TO RECOAT IN Overnight

REMARKS Changed to improve Gloss retention & whiter color.

NV by Vol. - 48.7%

PVC - 16.9%

Mill Charge - 31.0%

FORMULATOR J. E. Southwick

GLD060123

COST	DATE	ANALYSIS	CUSTOMERS X-1217-B
		PIGMENT 27.9 %	Sapolin Enamel - Ultra White
		VEHICLE 72.1 %	
		100.0%	10/29/68
		PIGMENT	Batching No. 11-62 NPVLA
		Titanium Dioxide 97.9%	
		Iron Oxide 2.1	Y Enamel Lot 11-26 AVG
		100.0%	21-32-2-4-5-8-13-19-25-26-2
			#30 (Thornton) 2-12-66 C
		VEHICLE	
		Linolein, Oleic, Linolenic,	
		Palmitic, Stearic -	
		Alkyd Resin 54.5%	
		Mineral Spirits & Driers 45.5	
		100.0%	
		X-1217 460#	

GLD060124

Glidden Form 1309-1 Printed in U.S.A. 4/66 C & R FORMULA

Product Japalac Enamel - Ultra White

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-830	7.68	265.0		
W-814	0.11	5.0		
E-133	0.33	2.90		
E-380	0.40	3.13		
369-WA-16*	0.08	1.10	------	*Weigh Carefully
E-396	0.31	4.30	---	(Add at first let-down)
E-118)	0.19	2.90		)Can be added as 4.66
S-213)	0.21	1.45		)(35.4#) gallons.
V-2278 or V-2390	2.76	21.40		369-W-218 in grind or to first let-down.
S-330	1.50	9.75		
**V-2278 or V-2390	74.10	(574.0)		(14 Gals. in grind)
S-330	11.50	74.4		(8 Gals. in grind)
E-304	0.40	3.20		
E-344	0.40	3.69		
E-262	0.15	1.15		
				**V-2278 must be Safflower type.
Yield	100.12	973.67		

Formula Number Y-1217-E(S.F

Laboratory Number

R.M. Cost Date 3/1/67

Mill Pebble Grind 7-8

NPVLA #Lead -1

Label Warning 11-62 METHOD

Wt./Gal. 9.7#

Flash Pt. °F 100°

N.V.Wt. 64.8%

N.V.Vol. 48.7%

Visc. F-BQ0-100"

Visc. 94 F.C.

Reducer S-330 Ratio

P.V.C. 16.9% pH

Color White Match Y-1217

Gloss Over 86 Method

Strainer

Container

Application Brush F.R.

Spray: S-332

Cure Air Dry: 6-7 hrs.

Recoat: Overnight

Remarks

Mill Charge - 35.2%

Formulator J. E. Southwick

Approved by

GLD060125

Glidden Form 1169-1 (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

Manufactured at Plants #14 ~~4-30~~ 2-16-67

#30 12-6-66

Manufacturing Instructions or Remarks Stamped 2-16-67

PI-2-4-5-8-11-12-15-16-17

Date 3/1/67 Formula No. Y-1217-3 (S.

Product Japalac Enamel - Ultra White

Label Warning #11-62 MPVLA

ANALYSIS

Pigment	27.9	%
Vehicle	72.1	%
	100.0%	

Pigment

Titanium Dioxide	97.3%
Zinc Oxide	2.7%
	100.0%

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic, Alkyd Resin	51.2%
Mineral Spirits & Driers	48.8%
	100.0%

NO CHANGE IN ANALYSIS Y-1217 4601

GLD060126

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

FORMULA RECORD

GOODS: Japalac Enamel - Ultra White

CONSISTENCY

FOR USE ON: Mfg. plant #14

CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1217-R (S.F.)

LABORATORY NO.

COST CLASS [redacted] DATE 10/29/64

STRAINER GRIND 7-8

MILL Pebble WT. OR DE 9.7#

IS AGITATOR REQUIRED

VISC. F. D. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full Gl

NON VOL. 64.8% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

ABT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-7 hours.

A. D. TO RECOAT IN Overnight

REMARKS: Changed to improve gloss retention.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
V-290				7.68	265.0	
W-128				0.11	5.0	
CH-185				0.33	2.90	
VM-523				0.40	(3.13)	
369-WA-16	(WEIGH CAREFULLY)			0.08	1.10	
N-333	(Add at first let-down			0.31	4.30	
W-218	Can be added as 4.66			0.19	2.90	
S-91	(35.4#) gallons			0.21	(1.45)	
*V-869 or	)369-W-218 in grind)					
V-863	)or to first let-			2.78	(21.40)	
S-43	)down.			1.50	(9.75)	
*V-869 or						
V-863	(14 gallons in grind)			74.10	(574.0)	
S-43	(8 gallons in grind)			11.50	(74.4)	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.69)	
CH-359				0.15	(1.15)	
YIELD				100.12	973.67	

*V-869 must be Safflower type.

N.V. by Vol. 48.7%

P.V.C. 16.9%

Mill Charge 35.2%

FORMULATOR J. E. Southwick

GLD060127

COST	DATE	ANALYSIS	CUSTOMERS Y-1217-E
		PIGMENT 27.9 %	Japalac Enamel - Ultra White
		VEHICLE 72.1 %	
		100.0%	10/29/64
		PIGMENT	Warning No. 11-62 RPVLA
		Titanium Dioxide 97.3%	
		Zinc Oxide 2.7	Y Enamel Ext [illegible]
		100.0%	11-30-64
			[redacted]
			A 15 12-15-64 D
			#32 (Thermite)
		VEHICLE	
		Linoleic, Oleic, Linolenic,	
		Palmitic, Stearic -	
		Alkyd Resin 51.2%	
		Mineral Spirits & Driers 48.8	
		100.0%	
		Y-1217 46%	

GLD060128

COR FORMULA
Golden Form 1109-1 Printed in U.S.A. 3/65

Product	Spaine Zinc#1 - Ultra White				Formula Number	F-1217-F (Cowles	
Customer					Laboratory Number		
CODE NUMBER	100 GALLON BATCH GALLONS	POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS	R.M. Cost	Date	8/19/65
V-863-A	15.00	(124.8)			Mill Cowles	Grind	7-8
[illegible]	(0.33)	2.90			% Lead -1		
[illegible]	0.40	(3.33)			Wt./Gal. 9.36	Method	S-A-1
V-250	(7.05)	265.0			Flash Pt. °F. 200	Method	
[illegible]	(0.31)	5.0		Disperse to a 7-8	N.V. Wt. 64.86	Method	
				grind then add:	N.V. Vol. 46.75	Method	
V-353	(0.31)	4.30			Visc. F.B. 90-100"	Method	A-A-1
369-W-10	(0.08)	1.10		Watch carefully.	Visc. Red.	Method	
					Reducer S-340	Ratio	
V-863-A	58.10	(449.2)		Use enough to transfer	P.V.C. 16.0 %	pH	
S-340	11.50	(74.4)		to let-down tank.	Color White	Match	
V-863-A	2.75	(21.40)		Pre-disperse on Cowles			
S-340	1.50	(9.75)		or add as 4.66 (35.4#)	Gloss 86 Min.	Method	O-A-1
A-91	0.21	(1.45)		gallons - 369-W-218.	Strainer		
A-218	(0.19)	2.90			Container		
VR-524	0.40	(3.20)			Label Warning 11-62 NPVLA		
VR-526	0.40	(3.60)			Application		
[illegible]-359	0.15	(1.15)		Standard formula, not to be taken from file.	Cure Air Dry 6-7 hours. Recoat: Overnight		
					Remarks		
					Formulator J. E. Southwick		
Yield	100.13	973.67			Approved by S. T. Bowell		

GLD060129

4/19/66 Y-1217-F

CLASS	
CODES	

DESCRIPTORS (20 spaces – limit)

Japalac Enamels- Ultra White

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 #1-2-4-5-8-11-12-14-15-16-17

6-8-6

	%
Pigment	27.9
	72.1
	100.0%
Titanium Dioxide	97.3%
Zinc Oxide	2.7
	100.0%
Resin 10-31-66	
Vehicle Solvents 1-4-67	
Linoleic, Oleic, Linolenic, Palmitic, Stearic Alkyd Resin	51.2%
Mineral Spirits & Driers	48.8
	100.0%
No change in analysis Y-1217	4501

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

GLD060130

FORMULA RECORD

FORMULA NO. Y-1217-F (Sand)

GOODS Sealac Enamel - Ultra White

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 1/19/65

FOR USE ON Mfg. Plants #1-2-4-6-8-11-12-14-15-16-17

STRAINER

GRIND 7-8

CUSTOMER Less than lb Lead

MIL Sand

WT. OR BE 7.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
PRE-MIX:	Pre-mix viscosity					
V-290	should be 89-750			7.68	265.0	
W-128	Record viscosity			0.11	5.0	
CH-185	& temperature of			0.33	2.90	
VM-523	pre-mix.			0.40	3.13	
360-HA-10	MIXING CAREFULLY			0.08	1.70	
V-863-A				14.50	112.4	
S-340				8.00	62.4	
DISPERSE TO A 7-8 GRIND, THEN ADD:						
V-863-A				59.50	461.6	
S-340				3.50	22.8	
309-W-210				4.66	35.4	
N-333				0.31	4.30	
VM-524				0.40	3.20	
VM-526				0.40	3.09	
CH-359				0.15	1.15	
	Standard Formula Not to be taken from File					
YIELD				100.12	973.67	

IS AGITATOR REQUIRED

VISC. F 90-100" TEMP. 77°

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Gloss

NON VOL 64.8% FLASH PT. 80°F

MATCH FOR

REDUCER S-340

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6-7 hours.

A. D. TO RECOAT IN Overnight

REMARKS:

NV by Vol. - 43.7%

TVC - 16.5%

Mill Charge - 32.6#

FORMULATOR W. E. Southwick

GLD060131

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 27.9 %	Y-1217-F
		VEHICLE 72.1 %	Japalac Enamel - Ultra White
		100.0%	4/19/56
		PIGMENT	
		Titanium Dioxide 97.3%	Warning #11-62 NFVLA
		Zinc Oxide 2.7	
		100.0%	No change in analysis
			JRL plant
			# 1-2-4-5-8-11-13-14-15-16-17
			6-6-66 JL
		VEHICLE	
		Linoleic, Oleic, Linolenic,	
		Palmitic, Stearic,	
		Alkyd Resin 51.2%	
		Mineral Spirits &	
		Driers 48.8	
		100.0%	
		Y-1217 4601	

GLD060132

Division Form 1105-1 Printed in U.S.A. 4/66

C & R FORMULA

Product: Japalac Enamel - Ultra White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
PREMIX 1				(Premix viscosity
V-830	(7.68)	265.0		should be 65-75 KU.
V-514	(0.11)	5.0		(Record viscosity
V-133	(0.33)	2.90		& temperature of
V-380	0.40	(3.13)		premix.
V-369-WA-16	(0.08)	1.10		
*Weigh carefully				
V-2390	14.50	(112.4)		
S-340	8.00	(52.4)		
Disperse to a 7-8 grind, then add:				
V-2390	59.60	(461.6)		
S-340	3.50	(22.8)		
V-69-W-218	4.66	(35.4)		
V-396	(0.31)	4.30		
V-304	0.40	(3.20)		
V-344	0.40	(3.69)		
V-262	0.15	(1.15)		
Yield	100.12	973.67		

Formula Number: Y-1217-F(Sand)

Laboratory Number:

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

Mill: Sand Grind: 7-8

NPVLA: %Lead: -1

Label Warning: 11-62 METHOD

Wt./Gal.: 9.7#

Flash Pt. °F: 100°F

N.V.Wt.: 64.8%

N.V.Vol.: 48.7%

Visc.: 90-100 KU

Visc. Red.

Reducer: S-340 Ratio

P.V.C.: 16.9% pH

Color: White Match

Gloss: Over 85 Method

Strainer

Container

Application: Brush, Roll, Spray

Cure: Air Dry: 6-7 hrs. Recoat: Overnight

Remarks:

Mill Charge - 31.0%

Formulated by: J.R. Southwick

Approved by:

GLD060133

Glidden Form 4109-1 (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

Manufactured at Plant #1-2-4-5-8-11-12-14-15-16-17

Manufacturing Instructions or Remarks #30 12-6-66

Date 3/1/67 Formula No. Y-1217-F

Product Vapalac Enamel - Ultra White

Label Warning #11-62 NFVLA

ANALYSIS

Pigment	27.9	%
Vehicle	72.1	%
	100.0%	

Pigment

Titanium Dioxide	97.3%
Zinc Oxide	2.7
	100.0%

2-16-67

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic,

Alkyd Resin	51.2%
Mineral Spirits & Driers	48.8%
	100.0%

NO CHANGE IN ANALYSIS

Y-1217 4601

GLD060134

Glidden Form 3109-1 Printed in U.S.A. 4/66 C & R FORMULA

Product: Japalac Enamel - Ultra White

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V-2390	16.00	(124.8)		DISCONTINUED
E-133	(0.33)	2.90		
E-380	0.40	(3.13)		Grd Y-100
W-830	(7.68)	265.0		
W-514	(0.11)	5.0		Disperse to a 7-8 grind then add:
E-396	(0.31)	4.30		
P369-WA-16	(0.08)	1.10		
	Weigh carefully			
V-2390	58.10	(449.2)		Use enough to transfer
E-340	11.50	(74.4)		to let-down tank.
V-2390	2.76	(21.40)		Pre-disperse on Cowles
E-340	1.50	(9.75)		or add as 4.66(35.4#)
E-213	0.21	(1.45)		gallons - 369-W-216.
E-116	(0.19)	2.90		
E-304	0.40	(3.20)		
E-344	0.40	(3.69)		
E-262	0.15	(1.15)		
				Standard Fe Not to be from F
Yield	100.12	973.67		

Formula Number: V-1237-F (Coulos

Laboratory Number:

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

Mill: Cowles Grind: 7-8

NPVLA: Lead: -1.

Label Warning: 11-62

		METHOD
Wt./Gal.	9.7#	5-A-1
Flash Pt.	100°F	
N.V.Wt.	64.8%	
N.V.Vol.	48.7%	
Visc.	90-100"	4-A-1
Visc. Red.		
Reduce	S-340	Ratio
P.V.C.	16.9%	pH
Color	White	Match
Gloss	over 86	Method: 9-A-1
Strainer		
Container		
Application		
Cure	Air Dry: 6-7 hrs.	
	Recoat: Overnight	
Remarks		

Formulator: J.E. Southmaid

Approved by:

GLD060135

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

Date [illegible] Formula No. [illegible]

CLASS					
CODES					

Product Line Brand -
White White

DESCRIPTORS (20 spaces–limit)

Label Warning [illegible]

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☐ Silicone Yes ☐ No ☐

Reasons

Colors Glass

For Use On

Resistance

Manufactured at Plant 1-2-4-5-6-11-12-14-15-16-17 - 2-16-67

Manufacturing Instructions or Remarks F 30 12-6-65

ANALYSIS

	Pigment [illegible]	%
	Vehicle [illegible]	%
		100.0%

Pigment

Titanium Dioxide	93.3%
Zinc Oxide	6.7
	100.0%

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic,

Alkyd Resin	51.2%
Mineral Spirits & Driers	48.8%
	100.0%

NO CHANGE IN ANALYSIS
Y-1217 460:

GLD060136