Glidden Form 1109-1 Printed in U.S.A. 4/66

C & R FORMULA

FILMED

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)		Y 900
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		
9369-WA-16	(0.08)	1.10		
	*Weigh carefully			
V-2390	58.10	(449.2)		Use enough to transfer
S-340	11.50	(74.4)		to let-down tank.
V-2390	2.76	(21.40)		Pre-disperse on Cowles
S-340	1.50	(9.75)		or add as 4.66(35.4#)
S-213	0.21	(1.45)		gallons - 369-W-218.
E-118	(0.19)	2.90		
E-304	0.40	(3.20)		
E-344	0.40	(3.69)		
E-262	0.15	(1.15)		
Yield	100.12	973.67		

Standard Fe
Not to be
from Fi

Formula Number Y-1217-F(Cowles)

Laboratory Number

R.M. Cost Date 1/1/67

Mill Cowles Grind 7-8

NPVLA %Lead -1

		METHOD
Label Warning	11-62	
Wt. Gal.	9.7#	5-A-1
Flash Pt.	100°F	
N.V.Wt.	64.8%	
N.V.Vol.	46.7%	
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 8-A-1

Strainer

Container

Application

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

Remarks

Formulator J.E. Southwick

Approved by

N12081

GLD059367

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

Color Gloss

For Use On

Resistance

Manufactured at Plant 1-2-4-5-8-11-12-14-15-16-17 - 2-16-67

Manufacturing Instructions or Remarks [illegible] 10-6-66

Date [illegible] Formula No. [illegible]

Product [illegible] -

[illegible]

Label Warning [illegible]-62 [illegible]

ANALYSIS

Pigment 27.3 %

Vehicle 72.[illegible] %

100.[illegible]

Pigment

Titanium Dioxide 37.[illegible]

Zinc Oxide [illegible]

100.0%

Vehicle

Linoleic, Oleic, Linolenic, Palmitic, Stearic, Alkyd Resin 51.2%

Mineral Spirits & Driers 48.8%

100.0%

NO CHANGE IN ANALYSIS

Z-1217 4601

GLD059368

Glidden Form 1109-1 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 :				(Premix viscosity
W-830	(7.68)	265.0		(should be 65-75 KU.
W-514	(0.11)	5.0		(Record viscosity
E-133	(0.33)	2.90		& temperature of
E-380	0.40	(3.13)		(premix.
*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)		
369-W-218	4.66	(35.4)		
E-396	(0.31)	4.30		
E-304	0.40	(3.20)		
E-344	0.40	(3.69)		
E-262	0.15	(1.15)		
Yield	100.12	973.67		

Standard Formula. Not to be taken from file.

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. F 90-100°F C

Visc. Red.

Reducer S-340 Ratio

P.V.C. 16.9% pH

Color White Match

Glass Over 85 Method

Strainer

Container

Application Brush, Roll, Spray

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

Remarks

Mill Charge - 31.0%

Formulator J.E. Southwick

Approved by

GLD059369

Citation Form 1100-1 (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 W.C. 11-6-67

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

Product Japalac Enamel - Ultra White

Label Warning #11-62 NPVLA

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

GLD059370

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

FORMULA RECORD

FORMULA NO. V-1217-W (Base)

GOODS Semi-Gloss - Ultra White

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 3/19/65

FOR USE ON [illegible]

STRAINER

GRIND

CUSTOMER Dept. Nun 32 Yard

MILLING

WT. OR BE

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
PRE-MIX	Pre-mix Ingredients					
V-290	should be 5-7560			7.00	265.3	
W-128	Record Viscosity			0.11	5.0	
CH-185	& temperature of			0.33	2.50	
VM-523	pre-mix.			0.40	3.13	
359-WA-18	MIXED CAREFULLY			0.09	1.10	
V-863-A				14.50	(112.4)	
S-340				8.00	(62.4)	
DISPERSE TO 6 7-8 GRIND THEN ADD:						
V-863-A				59.50	(461.6)	
S-340				3.50	(22.8)	
359-W-210				4.65	(35.4)	
R-333				(0.31)	4.30	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.69)	
CH-359				0.15	(1.35)	
YIELD				100.12	973.67	

IS AGITATOR REQUIRED

VISC. F.B. 85-100 TEMP. 77°

VISC. RED. TEMP.

VISCOSIMETER #1 Paint Can

COLOR White SHEEN Flat

NON VOL 62.37 FLASH PT.

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:

MV 93 KU - 10.72

PVC - 18.77

Mill Charge - 32.92

FORMULATOR A. B. Sonderegger

GLD059371

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT 27.9 %		Y-1217-F
		VEHICLE 72.1 %		Japalac Enamel - Ultra White
		100.0%		
				4/19/66
		PIGMENT		
		Titanium Dioxide	97.3%	Warning #11-62 MPVLA
		Zinc Oxide	2.7	
			100.0%	
				No change in analysis
				Mfg. plant
				#1-2-4-5-8-11-12-14-15-16-17
				6-6-66 PI
		VEHICLE		
		Linoleic, Oleic, Linolenic, Palmitic, Stearic, Alkyd Resin	51.2%	
		Mineral Spirits & Driers	48.8	
			100.0%	
		Y-1217	4601	

GLD059372

C[illegible]R FORMULA
Glidden Form 1184-1 Printed in U.S.A.

Product	Aspirin Addict - Ultra White				Formula Number	T-[illegible] Duplex	
Customer					Laboratory Number		
CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS	R.M. Cost	Date 4/19/65	
					Mill Cowles	Grind	
T-853-A	12.40	(124.3)			% Lead -1		
VM-765	1 0.31	2.9			Wt./Gal. 9.7#	Method	
VM-763	1.41	(3.3)			Flash Pt. °F. 130	Method	
V-290	(7.93)	355.4			N.V. Wt. 54.65	Method	
V-220	(0.44)	5.0		Disperse T.C. & T-8	N.V. Vol. 45.75	Method	
				with then add:	Visc. F.B.90-[illegible]	Method	
M-333	(0.31)	4.30			Visc. Red.	Method	
369-WA-10	(0.08)	1.1		Weigh carefully.	Reducer S-340	Ratio	
					P.V.C. 16 [illegible]	pH	
V-863-A	58.10	(449.2)		Use enough to transfer	Color White	Match	
S-340	11.50	(79.4)		to let-down tank.			
V-863-A	2.75	(21.40)		Pre-disperse on Cowles	Gloss 86 Min	Method	
S-340	1.5	(9.75)		or add as 4.66 (35.4#)	Strainer		
T-93	0.21	(1.45)		of Ilone - 369-W-215.	Container		
W-215	(0.3)	2.90			Label Warning 11.52 mm.s		
VM-524	0.40	(3.20)			Application		
VM-526	0.40	(4.69)					
VM-359	0.15	(1.35)		Strain [illegible]	Cure Air Dry 5-7 hours.		
				[illegible]	Recoat Overnight		
				[illegible]	Remarks		
				from mill.			
					Formulator J. E. Southwick		
Yield	100.12	975.0			Approved by S. T. Bowell		

GLD059373

4/19/66 Y-1217-F

CLASS						Japalac Enamel - Ultra
CODES						Pigment White

DESCRIPTORS (20 spaces – limit)

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

9-8-6

Pigment	27.9
	72.1
	100.0%
Titanium Dioxide	97.3%
Zinc Oxide	2.7
	100.0%

Pem 10-31-66

Vehicle [illegible]

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

No change in analysis

Y-1217 4601

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

GLD059374

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

FORMULA RECORD

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

GOODS Japalac Enamel - Ultra White

CONSISTENCY

FOR USE ON Mfg. plant #14

CUSTOMER Less than 1% Lead

LABORATORY NO.

COST CLASS DATE 10/29/64

STRAINER GRIND 7-8

MILL Pebble WT. OR SE 9.7#

IS AGITATOR REQUIRED

VISC. F. D. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full Glo

NON VOL. 64.8% FLASH FT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING Full Body

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN. 5-7 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.
W-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	
M-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-			) 2.76	(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

GLD059375

COST	DATE	ANALYSIS	CUSTOMERS Y-1217-S
		PIGMENT 27.9 %	Japalac Enamel - Ultra White
		VEHICLE 72.1 %	
		100.0%	10/29/0[illegible]
		PIGMENT	Warning No. 11-62 NPVLA
		Titanium Dioxide 97.3%	
		Zinc Oxide 2.7	Y Enamel List
		100.0%	#-36-14
			[redacted] [redacted]
			#15 12-15-64 [illegible]
			#32 (Thoralac)
		VEHICLE	
		Linoleic, Oleic, Linolenic,	
		Palmitic, Stearic -	
		Alkyd Resin 51.2%	
		Mineral Spirits & Driers 48.8	
		100.0%	
		Y-1217 4601	

GLD059376

Glidden Form 11321 Printed in U.S.A. 4/66

C & R FORMULA

Product: Japalac Enamel - Ultra White

Customer:

Formula Number: V-1217-E(S.F.

Laboratory Number:

R.H. Test: 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.B: 90-100"

Visc. #4 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.B.

Spray: S-332

Cure: Air Dry: 6-7 hrs.

Recoat: Overnight

Remarks:

Mill Charge - 35.2%

Formulator: J. E. Southwick

Approved by:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
H-830	7.68	265.0		
W-514	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		

GLD059377

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

Color Gloss

For Use On

Resistance

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

30 12-6-66

Manufacturing Instructions or Remarks Stamped 2-16-67

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

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

Product Japalac Enamel - Ultra White

Label Warning #11-62 NPVLA

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

GLD059378

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

FORMULA RECORD

FORMULA NO. Y-1217-E (Sand)

GOODS Japalac Enamel - Ultra White

LABORATORY NO. [illegible]

CONSISTENCY

COST CLASS [illegible] 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#

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
PRE-MIX:	(Pre-mix viscosity)					
W-290	(should be 65-75KU)			(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)	
369-WA-16	(WEIGH CAREFULLY			(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-218				4.66	(35.4)	
M-333				(0.31)	4.30	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.69)	
CH-359				0.15	(1.15)	
YIELD				100.12	973.67	

VISC. F. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full Gloss

NON VOL. 64.8% FLASH P. 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

DISCONTINUED SEE [illegible]

GLD059379

COST	DATE	ANALYSIS	CUSTOMERS Y-1217-E
		PIGMENT 27.9 %	Alpalac Enamel - Ultra White
		VEHICLE 72.1 %	
		100.0%	10/2[illegible]/64
		PIGMENT	Warning No. 11-62 NPVLA
		Titanium Dioxide 97.3%	
		Zinc Oxide 2.7	Y Enamel Int [illegible]
		100.0%	[illegible]
			#30 (Thornton) [illegible]
		VEHICLE	
		Linoleic, Oleic, Linolenic,	
		Palmitic, Stearic -	
		Alkyd Resin 51.0%	
		Mineral Spirits & Driers 48.0	
		100.0%	
		Y-1217 #601	

GLD059380

C&R FORMULA

Product	Japalac Enamel - Ultra White			Formula Number	Y-1217-E (Cowles)
Customer				Laboratory Number	
CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS	R.M. Cost / Date 3/31/66
					Mill Cowles / Grind 7-8
V-863	16.00	(124.8)			% Lead -1
CH-185	(0.33)	2.90			Wt./Gal. 9.7# / Method 5-A-1
VM-523	0.40	(3.13)		**Destroy copy	Flash Pt. °F. 100 / Method
W-290	(7.68)	265.0		dated 3/14/66	N.V. Wt. 64.8% / Method
W-128	(0.11)	5.0		Disperse to a 7-8	N.V. Vol. 48.7% / Method
				grind then add:	Visc. F.B. 90-100" / Method 4-A-1
M-333	(0.31)	4.30			Visc. Red. / Method
369-WA-16	(0.08)	1.10		Weigh carefully.	Reducer S-43 / Ratio
					P.V.C. 16.9 % / pH
V-863	58.10	(449.2)		Use enough to transfer	Color White / Match
S-43	11.50	(74.4)		to let-down tank.	
V-863	2.76	(21.40)		Pre-disperse on Cowles	Gloss 86 Min. / Method 9-A-1
S-43	1.50	(9.75)		or add as 4.66 (35.4#)	Strainer
S-91	0.21	(1.45)		gallons - 369-W-218.	Container
W-218	(0.19)	2.90			Label Warning 11-62 NPVLA
VM-524	0.40	(3.20)			Application
VM-526	0.40	(3.69)			
CH-359	0.15	(1.15)			Cure Air Dry 6-7 hours. Recoat: Overnight
					Remarks
					Formulator J. E. Southwick
Yield	100.12	973.67			Approved by S. T. Bowell

Standard Formula. Not to be taken from Co.

GLD059381

CLASS					
CODES					

DESCRIPTORS (20 spaces – limit)

Trade Name Japalac Customer Trade Sales

Substrate and Treatment

End Use All Purpose

Specifications

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

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 8-86 & 6

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

GLD059382

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

FORMULA RECORD

NO CHANGE
FOOD USE

GOODS: Japalac Enamel - Ultra White

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. [illegible]

COST CLASS

DATE 10/29/64

STRAINER

GRIND 7-8

MILL Pebble

WT. OR BE 1 lb

IS AGITATOR REQUIRED

VISC. F. B. 90-100"

TEMP. 77°F

VISC. RED.

TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White

SHEEN 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	
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	
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)	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.69)	
CH-359				0.15	(1.15)	
YIELD				100.12	973.67	

GLD059383

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

FORMULA RECORD

NO CHANGE
FOOD USE

GOODS Japalac Enamel - Ultra White
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. [illegible]
COST CLASS DATE 10/29/[illegible]
STRAINER GRIND 7-8
MILL Pebble WT. OR BE [illegible]
IS AGITATOR REQUIRED
VISC. F. B. 90-100" TEMP. 77°F
VISC. RED. TEMP.
VISCOSIMETER #4 Ford Cup
COLOR White SHEEN 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	
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	
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)	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.69)	
CH-359				0.15	(1.15)	
YIELD				100.12	973.67	

GLD059383

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-E
		PIGMENT 27.9 %		Japalac Enamel - Ultra White
		VEHICLE 72.1 %		
		100.0%		10/29/62
		PIGMENT		Warning No. 11-62 [illegible]
		Titanium Dioxide	97.3%	
		Iron Oxide	2.7	Y Enamel Lot [illegible]
			100.0%	[illegible]
				[illegible] 2-[illegible]
				Colombia
				Panama 1-12-65
		VEHICLE		Mexico, Mexico, Ecuador 2-3-65
		Linoleic, Oleic, Linolenic,		Peru "
		Palmitic, Stearic -		
		Alkyd Resin 51.[illegible]		Guatemala 2-8-65
		Mineral Spirits & Driers 48.[illegible]		
			100.0%	Lebanon 2-17-65
		#36 (Thornton 2-21-66		
				Italy 3-19-65
				Panama 5-6-65
				Cuba 5-11-65
				Sweden 7-8-65
		Y-1217	4601	

GLD059384

C&R FORMULA
Coulter Print 1103-1 Printed in U.S.A. 9-65

Product	Japalac Enamel - Eltyn White	Formula Number	V-1017-5 (Cont.)
Customer		Laboratory Number	

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V-863	16.00	(124.8)	12.8	
W-290	(7.68)	265.0	27.3	
W-128	(0.11)	5.0	0.5	See V-1017-5 (Cont.)
CH-185	(0.33)	2.90	0.3	dated 3/21/66
VM-523	0.40	(3.13)	0.33	Disperse to 7-8 grind
				then add:
M-333	(0.31)	4.30	0.44	
369-WA-10	(0.08)	1.10	0.12	Weigh carefully
W-218	(0.19)	2.90	0.3	Pre-disperse on
S-91	0.21	(1.45)	0.16	Cowles or add as
V-863	2.76	(21.40)	2.2	4.66(35.4#) gallons
S-43	1.50	(9.75)	1.0	369-W-218
V-863	58.10	(449.2)	46.1	Let-Down
S-43	11.50	(74.4)	7.6	
VM-524	0.40	(3.20)	0.33	
VM-526	0.40	(3.69)	0.4	
CH-359	0.15	(1.15)	0.12	
Yield	100.12	973.67	100.0	

R.M. Cost		Date	3/14/66
Mill	Cowles	Grind	7-8
% Lead			
Wt. Gal.	9.74	Method	5-A-1
Flash Pt. °F.	100	Method	
N.V. Wt.	52.8%	Method	
N.V. Vol.	48.7%	Method	
Visc. F.B.	90-100"	Method	4-A-1
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. Howell		

GLD059385

CLASS					
CODES					

DESCRIPTORS (20 spaces - limit)

Trade Name [illegible] Customer Trade Sales

Substrate and Treatment [illegible]

End Use

Specifications All Purpose

Royalty Yes ☐ No ☐ X Silicone Yes ☐ No ☐ X

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

2-4-7 7-11-16

ANALYSIS

3/14/66 Pigment Y-1217-E

Vehicle 27.9

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%

Label Warning #11-62 NPVLA

No change in analysis

Y-1217 4601

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

GLD059386

GLIDDEN ARMA PRINTED IN U.S.A. [illegible]

FORMULA RECORD

GOODS: Japalac Enamel - Vitra White (Cleveland Only)

CONSISTENCY

FOR USE ON

CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1217-E BASE ★

LABORATORY NO. (Emergency Only)

COST CLASS | DATE 2/11/65

STRAINER | GRIND 7-8

MILL Sand | WT. OR DE 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

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Pre-mix: (Premix viscosity						
V-290 (should be 65-75 KU				7.68	265.0	
W-128 (Record viscosity &				0.21	10.0	
CH-185 (temperature of pre-				0.33	2.90	
VM-523 (mix.				0.40	3.13	
369-WA-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	
V-869) Disperse on Cowles				2.76	21.40	
S-43) for 10-20 min. @ 4				1.50	9.75	
S-91) adding to batch -				0.21	1.45	
W-218) same as 4.66 gals.				0.19	2.90	
M-333 (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	
CH-359				0.15	1.15	
★ Returned - 5#						
YIELD Scaled 12-9-64				100.22	979.07	

AIR DRIES IN 4-6 hours

A. D. TO RECOAT IN Overnight

REMARKS Cleveland special, changing from V-863 to V-869.

NV by Vol. 48.8%

PVC 17.1%

Mill Charge 31.1%

FORMULATOR J. E. Southwick

GLD059387

COST	DATE	ANALYSIS		CUSTOMERS Y-1217-E (Special)
		PIGMENT 28.8 %		Japalac 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 NPVLA
				Returned Y Paint List 2-15-65 ~~Bent~~ #1-30 only part 1
		VEHICLE		
		Linoleic, Oleic,		
		Linolenic, Palmitic,		
		Stearic Alkyd Resin	52.9%	
		Mineral Spirits & Driers	47.1%	
			100.0%	
		Y-1217	562	

GLD059388

GLIDDEN 480-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 BE 9.6#

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR White SHEEN Full Glos

NON VOL. 65.1% FLASH FT. 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

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	
CR-185				(0.33)	2.9	
VM-523				0.40	(3.13)	
369-WA-16 (Weigh Carefully)				(0.08)	1.16	
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-6228~~ 369-W-218				4.66	(35.4)	
M-333				(0.31)	4.3	
VM-524				0.40	(3.20)	
VM-526				0.40	(3.69)	
CR-359				0.15	(1.15)	
MAKE 2000 GALLONS						
YIELD				100.34	971.07	

REMARKS:

NV by Vol.	48.5%
PVC	16.1%
Mill Base	30.5%

FORMULATOR J. E. Southwick

GLD059389

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	[illegible]
		VEHICLE %	
			# Pierson (Prod.) 5-13-64 Q
			per TMS
		PIGMENT	
			#8 (Hauck) 5-28-64 Q
			per TMS
			Stamped
			#2 (copy) per TMS 6-9-64 Q
			Rebar (For. S.F.) per TMS 6-19-64 Q
			#5 (Kelly) (Stamped) 7-21-64 (3)
		VEHICLE	
		#30	(Stress) per TMS 8-20-64 Q
			Stamped
			#12 7-24-64 (3)

GLD059390

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

FORMULA RECORD (Supersedes Y-1217-C dated 2/14/64**)

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	DISCONTI			0.40	3.13	
VM-524				0.40	3.20	
VM-526				0.40	3.69	
CH-359	SEE Y-1217-C			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

GLD059391

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 28.3 %	Japalac - Ultra White
		VEHICLE 71.7 %	
		100.0%	
			2/14/64
		PIGMENT	
		Titanium Dioxide 93.7%	Warning No. 11-[illegible] NPVLA
		Zinc Oxide 6.3%	
		100.0%	Y - Enamel List 2-18-64 ①
			# 1-2-4-5-8-11-12-14-15-16-17
		[illegible]	Engstrom 2-18-64 ①
			~~[illegible]~~ ~~[illegible]~~
			~~[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. (Beck) 9-9-64 ①	
			Ecuador 4-27-64 ③
		Guatemala 9-18-64	Peru 5-5-64 "
		Y-1217 462	Sekisan Japan 8-20-64 "

Y-1217-C

GLD059392

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

FORMULA RECORD

GOODS: Japalac Enamel - Ultra White
CONSISTENCY:
FOR USE ON: Mfg. Plants #2-8-5-12-14-16-17
CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1217-C
LABORATORY NO. (Sand Mill)
COST CLASS: DATE 5/15/64
STRAINER: GRIND 7-8
MILL Sand: WT. OR BE 9.7#
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 16.6%
Mill Charge 30.9%

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
PREMIX:						
V-869 (Premix viscosity				14.50	(112.5)	
VM-523 (should be 65-75 KU				0.40	(3.13)	
CH-185				(0.33)	2.90	
W-208				(7.30)	252.0	
W-128				(0.36)	17.0	
S-43				8.00	(52.0)	
Disperse to a 7-8 grind, then add:						
V-869				60.24	(466.7)	
V-869)Mix on Cowles for				2.76	(21.4)	
S-43)10-20 min. before				1.50	(9.6)	
S-91)adding to batch or as				0.21	(1.45)	
W-216)4.66 Gals. EGL-64405)				(0.19)	2.90	
M-333				(0.31)	4.30	
S-43	Standard Formula			3.50	(22.9)	
VM-524	Not to be taken			0.40	(3.20	
VM-526	from File.			0.40	(3.69	
CH-359				0.15	(1.15)	
369-WA-16				Trace		
369-WR-227				Trace		
YIELD				100.55	976.82	

GLD059393

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 28.3 %	Y-1217-C
		VEHICLE 71.7 %	Japalac - Ultra White
		100.0%	5/15/64
		PIGMENT	
		Titanium Dioxide 93.7%	Warning No. 11-62 NPVLA
		Zinc Oxide 6.3%	
		100.0%	No change in analysis
			Y Enamel Test 6-5 64 G
			#1 (except Clevc. Tab. Cont. Prod
			#2-5 8-12 14-16-17
		VEHICLE	
		Soya Alkyd Rosin 52.3%	
		Mineral Spirits & Driers 47.7	
		100.0%	
		Y-1217 462	

GLD059394

GLIDDEN 480-H PAINTED 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 IN: Mfg. at plants #1-2-4-5-8-11-12-14-15-16-17

STRAINER GRIND 7-6

CUSTOMER: This Production Must Not Contain Lead

MILL Pebble WT. OR BE 5.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				7.31	252.0	
W-128				0.36	17.0	
R-333				0.31	4.3	
CH-185				0.33	2.9	
W-218	Mix before			0.19	2.9	
S-91	adding to mill			0.21	1.4	
V-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	
VM-526	Not to be taken			0.40	3.7	
VM-523	from File.			0.40	3.1	
CH-359				0.15	1.15	
369-WA-16				Trace		
369-WR-227				Trace		
4 x 5 mill - make 270 gallons enamel						
5 x 6 mill - make 530 gallons enamel						
YIELD				100.56	984.05	

IS AGITATOR 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

AGT. 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 use 369 bases.

Mill Base	33.0%
PVC	17.6%
NV by Vol.	48.4%

FORMULATOR J. E. Southwick

GLD059395

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 27.5 %	Japanese - Ultra White
		VEHICLE 72.5 %	
		100.0%	
			3/21/63
		PIGMENT	
		Titanium Dioxide 93.6%	
		Zinc Oxide 6.4	
		100.0%	
			Warning No. 11-62 MPVLA
			11/14/62
			Y Enamel Test 3-27-63
		VEHICLE	#1-2-4-5-8-11-12-14-15-16-17
		Soya Alkyd Resin 54.5%	
		Mineral Spirits & Driers 45.5	#30 (Engstrom) 5-16-63 ①
		100.0%	
		Mexico 3-3-64 ②	Italy 9-3-63
			Panama 9-25-63
			Zier (Caporaso) 2-6-64 ②
			Sek Japan 2-10-64 ③
			Mexico 2-21-64
		Y-1217 852	Guatemala 3-9-64 ④

GLD059396

GLIDDEN ARCH PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1217-B

GOODS Japalac Enamel - Ultra White

LABORATORY NO. Tallate Drierb

CONSISTENCY

COST CLASS.

DATE 9/6/62

FOR USE ON This Production Must Not Contain Lead

STRAINER

GRIND 7-8

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

MILL Pebble

WT. OR BC 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(7.20)	252.0	
W-128				(.36)	17.0	
W-333				(.32)	4.3	
CH-185				(.33)	2.9	
W-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					
YIELD				100.4	984.0	

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

Standard Formula, Not to be taken from Fils.

DISCONTINUED

SEE Y-1217-C

Alt: Y-4101 Y-5655

GLD059397

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 Label~~ Warning 11-62 NAVA
		Zinc Oxide	6.4	11-14-62
			100.0%	No change in analysis
				On Y Enamel List 9-13 [illegible]
				Plants # 1-2-4-5-8-11-12-14-15-16-17
				Schulte (for E.D.) per TMS 3-19-63
		VEHICLE		
		Soya Alkyd Resin	54.5%	Guatemala 3-9-64
		Mineral Spirits & Driers	45.5	
			100.0%	
		Y-1217	852	

GLD059398

FORMULA RECORD

GOODS: Jasmine Enamel - Ultra White

CONSISTENCY:

FOR USE ON: This Production Must Not Contain Lead

CUSTOMER:

FORMULA NO.: [illegible]

LABORATORY NO.: ~~(Atlanta Only)~~

COST CLASS: Tollate DATE: 6/16/61

STRAINER: Dreers GRIND: 7-0

MILL: Pebble WT. OR BE: [illegible]

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
[illegible]-205				(7.20)	250	
[illegible]-128				(.36)	17	
[illegible]-333				(.32)	4.3	
[illegible]-185				(.33)	2.0	
[illegible]-218) Mix before				(.19)	2.9	
[illegible]-72) adding to mill				.18	([illegible])	
T-869 (14.5 gal. in grind)				77.50	(608)	
S-43 (10 gals. in grind)				14.30	(93.7)	
VM-524				.4	3.2	
VM-526				.39	(3.7)	
VM-858				.39	(3.1)	
[illegible]-359				.15	(1.15)	
[illegible]-A-16	Trace					
[illegible]-R-227	Trace					
YIELD				[illegible]	995.[illegible]	

Standard Formula, Not to be taken from File.

DISCONTINUED SEE [illegible]

IS AGITATOR REQUIRED

VISC. F.B. 90-[illegible] TEMP.

VISC. RED. TEMP.

VISCOSIMETER [illegible] Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR [illegible]-1217-[illegible]

REDUCER

AMT. FOR BRUSHING

SPRAYING S-[illegible] TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-[illegible] hrs.

A. D. TO RECOAT IN [illegible] hrs.

REMARKS:

Changed to deter seeding

33% Mill Base

FORMULATOR [illegible]

GLD059399

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

GLD059400

GLIDDEN 182-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1217-A

GOODS Japalac Enamel - Ultra White

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 5/12/60

FOR USE ON This Production Must Not Contain Lead

STRAINER GRIND 7-8

CUSTOMER

MILL Pebble WT. OR BE 9.7#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
V-208				(7.20)	252	
W-128				(.36)	17	
N-333				(.32)	4.3	
CH-185				(.33)	2.9	
Y-218) Mix before				(.19)	2.9	
T-72) adding to mill				.18	(1.2)	
V-969 (14.5 gal. in grind)				77.50	(608)	
N-43 (10 gals. in grind)				14.30	(93.7)	
D-83				.78	(5.4)	
TM-432				.39	(3.7)	
VM-523				.39	(3.1)	
CH-359				.15	(1.15)	
181-A-16	Trace			Standard Formula No. to be ... from File		
93-R-227	Trace					
YIELD				102.09	995.35	

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-4101
5052

FORMULATOR J. E. Southwick

GLD059401

COST	DATE	ANALYSIS	CUSTOMERS Y-1217-A
		PIGMENT 27.5 %	Japalac - Ultra White
		VEHICLE 72.5 %	X - Ev. Lit 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 (Tulsa) 5-18-60
			Marsh (Portland) 5-18-60
			[illegible] 7-1-60
		VEHICLE	
		Soya Alkyd Resin 54.5%	[illegible]
		Mineral Spirits & Driers 45.5	Peru 4-[illegible]
		100.0%	
			Angel (Cajamarca) 7-25-61 [illegible]
		Costa Rica 6-7-62	Hess (Texas) 8-2-61 (21)
			Yeer (C) 11-17-61 (3
			[illegible]
		Y-1217 852	[illegible] 4-8-62 (1)

GLD059402