

Product **Endurance Imperial House Paint**

Formula Number **V-1867-J**

Customer

Laboratory Number

R.M. Cost

Date **4/5/67**

CODE NUMBER

100 GALLON BATCH
GALLONS POUNDS

% BY
WEIGHT

MANUFACTURING
INSTRUCTIONS

Mill

Grind

NPVLA ¹/₂ Lead

Label Warning

METHOD

Wt./Gal.

Flash Pt. °F.

DISCONTINUED: REPLACED WITH Y-1800-G

N.Y. Wt.

N.Y. Vol.

Per **TM Steppart**

Visc. F.B.

Visc. Red.

Reducer

Ratio

P.V.C.

pH

Color

Match

Standard Formula,
Not to be taken
from File.

Gloss

Method

Strainer

Container

Application

AD/Bake

Retest Time

Remarks

Formulator

Approved by

Yield

N12072

GLD059089

Date

Formula No.

CLASS

CODES

Product

DESCRIPTORS (20 spaces-limit)

Label Warning

Trade Name

Customer

ANALYSIS

Substrate and Treatment

Pigment

%

End Use

Vehicle

%

Specifications

Royalty

Yes ☐

No ☐

Silicone

Yes ☐

No ☐

Pigment

Resins

Color

Gloss

For Use On

Resistance

Manufactured at Plant

Vehicle

Manufacturing Instructions or Remarks

Product **Endurance Imperial House Paint**

Formula Number **Y-1267-J** **WSE**

Laboratory Number

Customer

R.H. Cost

Date **3/1/67**

CODE NUMBER

100 GALLON BATCH
GALLONS POUNDS

% BY
WEIGHT

MANUFACTURING
INSTRUCTIONS

Mill **PERL/WSE**

Grind **3-4**

NPVLA **14-02**

1 plus

Label Warning **14-02**

METHOD

Yt./Gal. **14.2%**

5-A-1

Flash Pt. **600°**

N.V.Wt. **91.6%**

N.V.Vol. **82.4%**

Visc. F.B. **82-87 KU** **4-C-1**

Visc. Red.

Reducer **S-330**

Ratio

P.V.C. **33.2%**

pH

Color **White**

Match

Gloss **70 min.**

Method **9-A-1**

Strainer

Comainer

Application **Brush**

Cure **Air Dry! Overnight**

Recoat: **72 hrs.**

Remarks

Formulator **Green/Southwick**

Approved by **Bowell**

Yield **100.11 1426.9**

Standard Formula
not to be taken
from file

Date 3/1/67

Formula No. V-1867-J

CLASS
CODES

Product Endurance Imperial House
Paint - White

DESCRIPTORS (20 spaces-limit)

Label Warning #14-62 NFVLA

Trade Name Customer

ANALYSIS

Substrate and Treatment

Pigment 61 5

End Use

Vehicle 39 2

Specifications

100%

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Pigment

Resins Linseed Alkyd Resin

Titanium Dioxide 29.9%

12% Lead Zina 35.0

Magnesium Silicate 35.1

100.0%

Color White Gloss 70 min.

For Use On

Resistance #30 1-4-67

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

Vehicle

Stamped #11-14 2-16-67

Linseed Alkyd Resin 78.6%

Manufacturing Instructions or Remarks

Mineral Spirits & Driers 21.4

100.0%

Stamped #6 5-10-67 per TKT

NO CHANGE IN ANALYSIS

V-1867

665

CLASS						5/5/66	ANALYSIS	Y-1867-
CODES							Pigment 61.0 %	
DESCRIPTORS (20 spaces - limit)							Vehicle 39.0 %	
Trade Name	Endurance House Paint Customer						100.0%	
Substrate and Treatment						Pigment		
End Use						Titanium Dioxide	29.6	
Specifications						12% Lead Zinc	35.6	
Royalty	Yes ☐	No ☒	Silicone	Yes ☐	No ☒	Magnesium Silicate	35.1	
							100.1	
Resins	Linseed Alkyd Resin							
Color	White		Gloss	70 Min.				
For Use On								
Resistance						Vehicle		
Manufactured of Plants	#1-2-4-5-8-12-14-16-17					Linseed Alkyd Resin	78.	
	Licence "A" Lic. 6-30-66 (B)					Mineral Spirits & Driers	21.	
	Canto Pica 7-2-66 (B)					Warning #14-62 NFVLA		
						Y Paint Lot	15-12-66	
						#1-2-4-5-8-12-14-16-17		
						Stamped: Tealini	15-12-66	
						#11-15		
						Y-1867	665	

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

GLD059034

Product Endurance Imperial House Paint				Formula Number V-1067-V	
Customer Mfg. plants #8-12-15 Only -H1 (Per.)				Laboratory Number (Temporary)	
CODE NUMBER	100 GALLON BATCH		% BY WEIGHT	MANUFACTURING INSTRUCTIONS	R.M. Cost Warehouse Date 7/11/65
	GALLONS	POUNDS			Mill Pebble or Grind 3-4
W-280	5.22	170.0			% Lead More than 1%
W-290	2.61	90.0			Mt./Gal. 14.2 Method
W-294	5.88	275.0			Flash Pt. °F. Method
W-104	0.63	36.0			N.V. Wt. Method
W-188	12.86	303.0			N.V. Vol. Method
W-218	0.23	3.5	} Premix and add immediately to mill.		Visc. F.B. 80-87 Method
S-91	0.25	1.8			Visc. Red. Method
					Reducer Ratio
O-132	34.60	269.0			P.V.C. pH
V-855	11.20	93.0			Color Match
O-286	9.20	74.0			
S-43	11.70	76.0			Gloss 70 min. Method
S-148	4.50	30.0			Strainer
					Container
VA-432	1.13	10.7			Label Warning #14-62 NPVLA
VA-534	0.11	0.9			Application Brush
					Cure Overnight
					Recoat: 72 hours.
					Remarks To use up stocks of W-104 only.
					Pigment Green/Southwick
Yield	100.12	1432.9			Approved by S. Bowell

CS R FORMULA

Golden Form 1109-1 Printed in U.S.A. 9/65

 Product **Endurance Imperial House Paint**

 Formula Number **7-1867-J**

 Customer **Mfg. plants #8-12-15 Only**

 Laboratory Number **(Temporary)**

CODE NUMBER	100 GALLON BATCH		BY WEIGHT	MANUFACTURING INSTRUCTIONS	R.H. Case Korehous Date 7/11/68	
	GALLONS	POUNDS			Mill Pebble or	Grind 3-4
W-280 <i>W-62</i>	5.22	170.0			7. Lead	More than 15
W-290 <i>W-83</i>	2.61	90.0			Wt./Gal. 14.2	Method
W-294 <i>W-54</i>	5.88	275.0			Flash Pt. °F.	Method
W-104 <i>W-41</i>	0.63	36.0			N.V. Wh.	Method
W-188 <i>N-43</i>	12.86	303.0			N.V. Vol.	Method
W-218 <i>E-11</i>	0.23	3.5	} Premix and add	} Immediately to mill.	Visc. F.B. 82-87	Method
W-91	0.25	1.8			Visc. Red.	Method
W-213					Reducer	Ratio
W-132 <i>W-123</i>	34.60	269.0			P.V.C.	pH
W-855	11.20	93.0	W-2197		Color	Match
W-286 <i>W-731</i>	9.20	74.0				
W-435 <i>W-330</i>	11.70	76.0			Gloss 70 min.	Method
W-148	4.50	30.0			Strainer	
W-132 <i>E-3</i>	1.13	10.7			Container	
W-534 <i>E-32</i>	0.11	0.9			Label Warning #14-62 NPTLA	
					Application	Brush
					Cure	Overnight
					Remarks	Repeat: 72 hours.
						To use up stocks of
						W-104 only.
					Prepared by	Green/Sonthwick
Yield	100.12	1432.9			Approved by	S. Powell

GLD059097

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 61.1	Y-1867-H
		VEHICLE 38.9	Endurance Imperial House Paint
		100.0%	White
			12/5/62
		PIGMENT	
		Titanium Dioxide 27.4%	
		Magnesium Silicate 35.5	
		18% Monobasic	Warning No. 14-62 NPVLA
		Lead-Zinc Oxide 37.1%	(12/19/62)
		100.0%	
			No change in analysis
			Y Enamel List 2-8-636
			Plants 1-2-4-5-8-13-14-15-16-17
		VEHICLE	
		Linseed Oil, Alkyd Resin 78.3%	F30 (Zinc + Linseed) 1-2-64
		Mineral Spirits & Driers 2.7	
		100.0%	Sed. Japan 2-10-64
		Peru 5-5-64 (3)	
		#30 (Thermolux) 2-24-66	Mexico 2-27-64
			West. Indian 3-3-64
			Puerto Rico 3-9-64
			Manila 5-31-64
		Y-1867	205 Ecuador 4-27-64 (3)

GLD059100

FORMULA NO. Y-1867-H (Ceniles-

60005 Endurance Imperial House Paint - White

LABORATORY NO. **MORENOLISE**

CONSISTENCY

COST CLASS. **BASE** DATE **12/5/62**

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

COST CLASS. Other DATE 2/5/02

~~DISC-EXR~~ Reissued to use Tallates

STRAINER GRIND 3-4
MILL Cowles WT. OF RE 14.3

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	VISC. F.B.	TEMP.
0-132				28.3	(220.0)		VISC. RED.	TEMP.
V-855				11.2	(93.0)		VISCOSIMETER	Stormer
0-286				9.2	(74.0)		COLOR	White SHEEN
W-249				6.82	325.0		NON VOL.	FLASH PT. 100°F
W-91				3.09	100.0		MATCH FOR	
W-208				4.07	140.0		REDUCER	S-43
W-188				12.90	303.5		MNT. FOR BRUSHING	As needed
WM-308				.06	4.4		SPRAYING	TUNELING
W-218				.18	2.7		DIPPING	DRIP TIME
S-91				.17	(1.35)		BAKE	TEMP.
Grind to a 3-4							AIR DRIES IN	O.N.
0-132				6.3	(49.0)		A. O. TO RECOAT IN	72 hrs.
S-43				12.0	(78.0)		REMARKS:	
S-148				4.5	(30.0)		NV by Wt.	91.7%
WM-432				1.13	(10.7)		NV by Vol.	82.1
WM-534				.11	(.9)		PVC	33.1%
							FORMULATOR	J. E. Southwick
YIELD				100.03	1432.5			

[illegible]

FORMULA RECORD				FORMULA NO. 7-1867-H(N.O. A11)		
GOODS Endurance Imperial House Paint White,				LABORATORY NO. 8488		
CONSISTENCY Mildew Resistant				COST CLASS DATE 1/25/65		
FOR USE ON Hfg. at Plant #4 Only				STRAINER Peblac GRIND 14.3		
CUSTOMER Label Warning E4-62 NPVLA				MILL WT. OR BE		
CODE NUMBER	ONE GALLON BATCH			LARGE BATCH		IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	
2-249				(6.82)	325.0	VISC. F. 802-87 KU TEMP. 40°F
2-91				(4.312)	140.0	VISC. RED. TEMP.
2-208				(2.887)	103.0	VISCOSIMETER Stormen
2-188				(2.86)	303.5	COLOR White SHEEN
VII-308				(0.06)	4.5	NON VOL 91.7% FLASH POINT
2-218				(0.18)	2.7	MATCH FOR
S-91				(0.20)	(1.35)	REDUCER S-43
0-132						AMT. FOR BRUSHING As needed
0-134				34.6	(269.0)	SPRAYING TUMBLING
0-286				11.2	(93.0)	DIPPING DRY TIME
0-43				9.2	(74.0)	BAKE TEMP.
S-148				12.0	(78.0)	AIR DRIES IN 0.11
				4.5	(30.0)	A.C. TO RECOAT IN 72 Hrs.
VII-422				1.13	(10.7)	REMARKS:
VII-534				0.11	(0.9)	H.V. by Wt. 51.7%
VII-650				0.50	(11.05)	H.O. by Vol. 82.1
ISSUED AT THE REQUEST OF MR. ORCEAIS FOR				PVC 33.1		
CREATE MILDW RESISTANCE						
(OVER)				FORMULATOR J. C. Pedarre, Jr.		
YIELD				100.55 1430.65		

GLD059103

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	
		VEHICLE 61.1 %	
		38.0	
		100.0%	
		PIGMENT	
			1/25/65
		Titanium Dioxide 27.1%	
		Magnesium Silicate 35.5	
		18% Monobasic	
		Loaded Zinc Oxide 37.1	
		100.0%	
			Contains added fungicide to make this paint resistant to the action of mildew fungi growing in or on the paint.
		VEHICLE	
		Linseed Oil, Alkyd Resin 78.3%	
		Mineral Spirits & Driers 21.7	
		100.0%	
			D1 (Phenyl-Mercury), Dodecenyl Succinate 0.08% Inert Ingredients 99.92 100.00%
			Mfg. plant #4
			#16 1-29-65 D
			#30 (Bovell & Lottchurch) " per T/S

GLD059104

GOODS: Durance Imperial House Paint White

LABORATORY NO.

CONSISTENCY: Mildew Resistant

COST CLASS

DATE 1/25/65

FOR USE ON: Mfg. at Plant #4 Only

STRAINER: Pebble

GRIND: 14.3

CUSTOMER

Label Warning 14-62 NPVLA

MILL

WT. OR BE

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	VISC. F. 82-87 KU	TEMP. °F
S-249				(5.82)	325.0		VISC. RED.	TEMP.
A-91				(4.312)	140.0		VISCOSIMETER	TEMP.
A-208				(2.987)	103.0		COLOR: White	SHEEN
A-188				(12.90)	303.5		NON VOL. 91.7%	FLASH PT. 100°F
VH-308				(0.06)	4.4		MATCH FOR	
A-218)	PK MIX			(0.18)	2.7		REDUCER 8-43	
S-91)				(0.20)	(1.35)		AMT. FOR BRUSHING	As needed
O-132							SPRAYING	TUMBLING
Y-855				34.6	(269.0)		DIPPING	DRIP TIME
O-249				11.2	(93.0)		BAKE	TEMP.
S-43				8.2	(74.0)		AIR DRIES IN	O. H.
S-148				12.0	(78.0)		A. D. TO RECOAT	102 hrs.
				4.5	(30.0)		REMARKS:	
VH-432				1.13	(10.7)		U.V. by Wt. 91.7%	
VH-534				0.11	(0.9)		H.O. by Vol. 82.1	
VH-650				0.50	(4.05)		PVC 33.1	
ISSUED AT THE REQUEST OF NEW ORLEANS FOR								
OPERATOR: MILDEN RESISTANCE								
(OVER)							FORMULATOR	J. C. Pedarre, Jr.
YIELD				100.56	1438.05			

Standard Formula
Not to be taken
from file

COST

DATE

ANALYSIS

CUSTOMERS

X-1867-H(N.O.)

PIGMENT

61.2

%

Endurance Imperial House Paint Whit

VEHICLE

38.9

%

Mildew Resistant

100.0%

1/25/65

PIGMENT

Titanium Dioxide

27.4%

Warning No. 14-62 NYLA

Magnesium Silicate

35.5

18% Monobasic

Leaded Zinc Oxide

37.1

100.0%

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

VEHICLE

Linseed Oil, Alkyd Resin 78.3%

Mineral Spirits & Driers 21.7

100.0%

Di(Phenyl-Mercury).

Dodeceny Succinate

0.08%

Inert Ingredients

99.92

100.00%

Mfg. plant #4

#16

2.30 (Southwest Br. 11)

per 7 MS

2-2-65

X-1867

561

GLD059106

FORMULA RECORD

FORMULA NO. Y-1867-H (N.D. Alt.)

Goods Endurance Imperial House Paint White

LABORATORY NO.

CONSISTENCY Mildew Resistant

COST CLASS

DATE 1/22/65

FOR USE ON

STRAINER

GRING, 6

CUSTOMER Label Warning 14-62 NFVLA

MILL Pebble

WT. OR BEL 4.3

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH	
	PINTS	LBS.	OZS.	GALS.	LBS.
N-249				(6.82)	325.0
N-280				(4.31)	140.0
N-290				(2.99)	103.0
N-188				(12.90)	303.5
NM-306				(0.06)	4.4
N-218)				(.18)	2.7
S-91)				.20	(1.35)
O-132				34.6	(269.0)
O-286				9.6	(74.0)
V-855				11.2	(93.0)
S-43				12.0	(78.0)
S-148				4.5	(30.0)
NM-432				1.13	(10.7)
NM-534				.11	(0.9)
NM-659				.50	(4.05)
YIELD				100.56	1438.63

NEW ORLEANS

IS AGITATOR REQUIRED?

VISC. F. 82-87KU TEMP. 80°F

VISC. RED. TEMP.

VISCOMETER Stomper

COLOR White SHEEN

NON VOL 91.7% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

ANT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

N.V. Vol 82.1% PVC 33.1%

AIR DRIES IN O.N.

A.D. TO RECOAT IN 72 hrs.

REMARKS:

Void formula

Date 1-25-65

Changed to use active raw material

FORMULATOR J.C. Pedarra

FORMULA NO. Y-1867-a (Cowles)

GOODS Endurance Imperial House Paint - White

LABORATORY NO. BASC Morehc

CONSISTENCY *Thin Coarse*

COST CLASS. DATE 8/20/6

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

STRAINER GRIND 3-4

CUSTOMER More than 1% Lead

See attached Pebbly MILL Cowles WT. OR BE 14.3

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
0-132				28.3	(220.0)		VISC. F.B. 82-87 R.P. 80°F
V-855				11.2	(93.0)		VISC. RED. TEMP.
0-286				9.2	(74.0)		VISCOSIMETER Stormer
							COLOR White SHEN
V-249				6.82	325.0		NON VOL. FLASH PT. 100
V-91				3.09	100.0		BATCH FOR
V-208				4.07	140.0		REDUCER S-43
V-186				12.90	303.5		WMT. FOR BRUSHING As needed
VM-308				.06	4.4		SPRAYING TUNELING
V-218				.18	2.7		DIPPING DRIP TIME
S-91				.17	(1.35)		BAKE TEMP.
Grind to a 3-4							
0-132				6.3	(49.0)		AIR DRIES IN ON
S-43				12.0	(78.0)		A. D. TO RECOAT IN 72 hrs.
S-148				4.5	(30.0)		REMARKS:
							NV by wt 91.7%
VM-432				1.13	(10.7)		NV by Vol. 82.1
VM-433				.11	(.9)		PVC 33.1%
VM-534							
YIELD							FORMULATOR J. E. Southwick

Standard formula, No. to be taken from File

[illegible]

GOODS

Endurance Imperial House Paint - White

LABORATORY NO.

CONSISTENCY

Liquid

COST CLASS.

DATE 6/21/61

FOR USE IN

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

STRAINER

GRIND 3-4

CUSTOMER

More than 1% Lead

Xtreme Green

MILL

Pebble

WT. OR SE 14.

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	DZS.	GALS.	LBS.	DZS.	
H-249				(6.82)	325.0		VISC. F.B. 82-87 RU DP. 80°F
H-91				(3.09)	100.0		VISC. RED. TEMP.
H-208				(4.07)	140.0		VISCOSIMETER Stormer
H-188				(12.90)	303.5		COLOR White SHED
VM-308				(0.06)	4.4		NON VOL. 91.7% FLASH PT. 100°F
H-218	Premix			(0.18)	2.7		MATCH FOR
S-72				(0.17)	(1.1)		REDUCER S-43
O-132				34.6	(269.0)		ANT. FOR BRUSHING As needed
V-855				11.2	(93.0)		SPRAYING TUGLING
O-286				9.2	(74.0)		DIPPING DRIP TIME
S-43				12.0	(78.0)		BAKE TEMP.
S-148				4.5	(30.0)		AIR DRIES IN O.N.
VM-432				1.13	(10.7)		A. D. TO RECOAT IN 72 hours
VM-433				0.11	(0.9)		REMARKS: Changed to use W-2 & for increased hiding.
							N.V. by Vol. - 82.1%
							P.V.C. - 33.1%
							FORMULATOR J. E. Southwick
YIELD				100.03	1432.3		

Standard Formula
Not to be taken
from file.

GOODS Endurance Imperial House Paint-White

LABORATORY NO.

CONSISTENCY

DISCONTINUED

COST CLASS.

DATE 6/1/61

FOR USE ON

STRAINER

GRIND 3-4

CUSTOMER

More than 1% Lead

SEE Y-1867-B

MILL Pebble

WT. OR BE 14.6

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
W-35				(6.05)	285.0		VISC: F.B. 82-87 KU TEMP.
W-1				(2.07)	110.0		VISC: RED. TEMP.
W-91				(3.25)	105.2		VISCOSIMETER Stormer
W-208				(3.05)	105.2		COLOR SHEEN
W-188				(12.70)	302.0		NON VOL. FLASH PT. 100°F
VM-308				(0.06)	4.4		MATCH FOR
W-218 } Pre-Mix				(0.18)	2.7		REDUCER S-43
S-72 }				0.17	(1.1)		AMT. FOR BRUSHING As needed
							SPRAYING TUMBLING
O-132				34.6	(269)		DIPPING DRIP TIME
V-855				11.2	(93)		BAKE TEMP.
O-286				9.1	(74)		
S-43				12.0	(78)		AIR DRIES IN O.N.
S-148				4.4	(30)		A. D. TO RECOAT IN 72 hrs.
							REMARKS Changed to lower
VM-432				1.12	(10.7)		cost with W-35.
VM-433				.14	(.9)		
							91.8% NV by wt.
							82.2% NV by Vol.
							33.3% PVC
							FORMULATOR J.E. Southwick
YIELD				100.09	1471.2		

**DO NOT MFG. ON COWLES, SEE SPECIAL FORMULA

[illegible]

GOODS: Endurance Imperial House Paint - White BASE LABORATORY NO. Morehouse
 CONSISTENCY: Xtra. Coarse STRAINER: GRIND: 3-4
 FOR USE ON: More than 1% Lead See attached Bill of Materials
 CUSTOMER: Morehouse COOKIES WT. OR BE: 14.6#

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
Add material in order listed:							VISC. F.B. 82-87 RUDAP.
V-855				11.2	(90.0)		VISC. RED. TEMP.
O-285				9.1	(75.0)		VISCOSIMETER Stormer
O-132				25.0	(194.4)		COLOR SHEEN
W-188				(32.7)	302.0		NON VOL. FLASH PT.
W-218				(0.23)	3.4		MATCH FOR:
W-208				(3.05)	105.2		REDUCER S-43
W-91				(3.25)	105.2		ANT. FOR BRUSHING As needed
W-35				(6.05)	285.0		SPRAYING TUNELING
W-1				(2.07)	110.0		DIPPING DRIP TIME
VM-308				(.06)	4.4		BAKE TEMP.
Disperse to a 3-4 grind* and add:							AIR DRIES IN Overnight
O-132				9.6	(74.6)		A. D. TO RECOAT IN 72 hrs.
3-72				0.20	(1.3)		REMARKS:
Morehouse to a clean 3-4 grind:							72.6% Mill Base
S-43				12.0	(79.0)		91.7% NV by wt.
S-148				4.3	(30.0)		82.3% NV by vol.
VM-432				1.12	(10.7)		33.3% PVC
VM-433				0.14	(0.9)		
Will be dirty							FORMULATOR J.E. Southwick
YIELD				100.07	1471.1		

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 60.5 VEHICLE 39.5 100.0%	Y-1867-E Professional Endurance Imperial One Coat Alkyd-Fortified #1867 Outside White 8/26/59
		PIGMENT 5% Lead Zinc Oxide 46.0% Titanium Dioxide 24.3 Magnesium Silicate 29.5 100.0%	No. 1 Label Warning No change in analysis.
			Y Enamel Ltd 8-26-59 Keating - Tulsa March Portland Chile 8-31-59 Ecuador 8-31-59 Nicaragua 8-31-59 Peru 8-31-59 WPA Declass 8-31-59 Paul Kuhn 7-12-60 J. Kuhn (C) 8-26-60 GP Mexico 9-16-60
		VEHICLE Linseed Oil 50 Linseed Alkyd 18 Mineral Spirits & Driers 21 100 0%	
Y-1867		751	

GLD059118

GOODS: Endurance Imperial House Paint - White

LABORATORY NO.

CONSISTENCY: Liquid

COST CLASS.

DATE: 1/16/57

FOR USE ON

STRAINER

GRIND: 3-4

CUSTOMER

MILL: Pebble

WT. OR BE: 14.6

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	VISC. F.D.	TEMP.
W-6		5	8		405		VISC. RED.	TEMP.
W-91		1	7-1/2		108		VISCOSIMETER	Stormer
W-170		1	7-1/2		108		COLOR	SHEEN
W-188		3	8		260		NON VOL.	92% FLASH PT.
W-218			3/4		3	8	BATCH FOR	
VM-308			1		4	8	REDUCER	S-43
O-132	3-7/8			35-1/2			AGE FOR BRUSHING	As needed
V-855	1-1/4			11-1/2			TRAILING	
O-286	1			9-1/4			DRIPPING	DRIP TIME
S-43	1-3/8			12-1/2			BAKE	TEMP.
S-148	1/2			4-1/2			CO DRIES IN	Overnight
VM-432			2	1-1/8			A. D. TO RECOAT IN	72 hrs.
VM-433			1/4			19 Lbs.	CATALYST PVC	32.5
							AMT. OF CATALYST	
							POT LIFE	TEMP.
							STABILITY AT 200°F	
APA Advance Puffing	1/4			Loz. (Hold)			STABILITY AT 135°F	
Agent for viscosity							STABILITY AT 135°F	
							REMARKS	Changed for less chalking & wrinkling
							FORMULATOR	J. Southwick
FIELD	1.35			100			OK PCH	28-8-8

[illegible]

COST	DATE	ANALYSIS		CUSTOMERS	Y-1867-D
		PIGMENT	52.0 %		10/21/53
		VEHICLE	38.0 %	Endurance Imperial House Paint	
			100.0 %	White	
		PIGMENT		<i>All Plaster - V-Test</i>	<i>11-3-53</i>
		35% Lead Zinc Oxide	42.8%		
		Titanium Oxide	23.0		
		Barium Sulphate	19.7		
		Magnesium Silicate	15.3		
			100.0 %		
		VEHICLE			
		Linseed Oil	71.55%		
		Linseed Alkyd	17.00		
		Mineral Spirits	9.30		
		Liquid Drier	2.15		
			100.00 %		
		Y-1867	3501		

GLD059122

FORMULA NO. Y-1867-D

GOODS: Endurance Imperial House Paint - White

LABORATORY NO. DATE: 8/11/12/5

CONSISTENCY: Liquid

COST CLASS. GRIND 3-4

FOR USE ON

STRAINER

CUSTOMER

MILL Pebble WT. OR BE 15#

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
W-8		5	8				VISC. F.B. 80-85 KUM. 80°
W-91		2	2				VISC. RED. TEMP.
W-170			14				VISCOSIMETER Krebs Stormer
W-10		2	8				COLOR White SHEEN
W-188		2					NON VOL. FLASH PT. 100°
VM-308			1				MATCH FOR Y-1867
M-333			3/4				REDUCER S-43
CH-185			1				AMT. FOR BRUSHING F.B.
O-132	5-1/4						SPRAYING TUMBLING
V-855	1-1/4						DIPPING DRIP TIME
O-286	1/2						BAKE TEMP.
S-148	7/8						AIR DRIES IN Overnight
VM-432	1/8						A. D. TO RECOAT IN 72 hrs.
S-14			3/4	Add to grind			REMARKS:
VM-433			1/4	Loz.			** Reissued to make a correction. Destroy copy dated 10/21/53.
Formula changed to improve dry.							
DISCONTINUED							
YIELD 1.37 Gal.							FORMULATOR Southwick
							28-B-B

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT	62.0 %	Y-Inst 1-5
		VEHICLE	38.0 %	11-12-53
			100.0 %	
		PIGMENT		
		35% Loaded Zinc Oxide	42.6%	3 sets (Hwy) (For Ltr) 7-24-54
		Titanium Oxide	23.0	Montreal (H. Schell) (For) 6-7-54
		Barium Sulphate	18.1	Chile 11-24-53
		Magnesium Silicate	15.3	
			100.0 %	
		VEHICLE		
		Linseed Oil	71.55%	Peru 3-24-56
		Linseed Alkyd	17.00	Braden (Chile) 5-16-56
		Mineral Spirits	9.30	Columbia 7-10-56
		Liquid Drier	2.15	
			100.00 %	
		PV C = 28.9%		
		Y-1867	3501	

GLD059124

FORMULA NO. Y-1867-C

GOODS Endurance Imperial House Paint-White

CONSISTENCY Liquid

LABORATORY NO.

COST CLASS.

DATE 8/3/53

FOR USE ON One Coat House Paint

STRAINER

GRIND 34

CUSTOMER

MILL

Pebble

WT. OR BE 15

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	VISC. F.B.	TEMP.
W-6		5	8		440		VISC. RED.	TEMP.
W-91		2	2		170		VISCOSIMETER	Stormer
W-170			14		70		COLOR	SHEEN
W-10		2	8		200		NON VOL.	FLASH PT. 100°F
W-188		1			80		MATCH FOR	
CH-185			1		5		REDUCER	S-43
O-132	5-1/4			52-1/2			ANT. FOR BRUSHING	Use Full Body
V-855	1-1/4			12-1/2			SPRAYING	TUMBLING
O-286	1/2			5			DIPPING	DRIP TIME
S-148	3/8			3-3/4			BAKE	TEMP.
D-16	5/8			6-1/4			AIR DRIES IN	18 hrs.
S-14			5/8 Oz/gal.			50	A. G. TO RECOAT IN	72 hrs.
Changed to use W-188							REMARKS:	
Standard Formula Not to be taken from File							FORMULATOR	Homans
								25-6
YIELD	1.32							

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT	60.7 %	<i>Trade Sales - Y-1867-C</i>
		VEHICLE	39.3 %	
			100.0 %	
		PIGMENT		
		35% Leaded Zinc Oxide	46.0%	
		Titanium Oxide	25.0	
		Barium Sulphate	20.8	
		Magnesium Silicate	8.2	
			100.0 %	
		VEHICLE		
		Linseed Oil	71.5%	
		Linseed Alkyd	17.0	
		Mineral Spirits	5.5	
		Liquid Drier	6.0	
			100.0 %	

GLD059126

GOOSE

Endurance Imperial House Paint - White

LABORATORY NO.

CONSISTENCY

Liquid

COST CLASS:

DATE: 2/13/53

FOR USE ON

One Coat House Paint

STRAINER

GRIND. 3-4

CUSTOMER

Mill Pebble

WT. OR ME 15

[illegible]

Standard Formula
10 Lb taken
from file.

FORMULA NO. Y-1857-B

GOODS Endurance Imperial House Paint-White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS.

DATE 2/13/53

FOR USE ON One Coat House Paint

STRAINER

GRIND 3-4

CUSTOMER

MILL Pebble WT. OR BE 15

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH			IS AGITATOR REQUIRED
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	
W-6		5	8		440		VISC. F.B. 80-85 KU TEMP. 80°
W-91		2	2		170		VISC. RED. TEMP.
W-170			14		70		VISCOSIMETER Stormer
W-10		2	8				COLOR SEEN
W-11		1					NON VOL. FLASH PT. 100°F
CH-185			1				WATCH FOR
O-132	5-1/4			5 1/2			REDUCER
V-855	1-1/4			1 1/2			WAT. FOR BRUSHING Use Full Body
O-286	1/2			5			SPRAYING TUMBING
S-148	3/8			3 3/4			DIPPING DRIP TIME
D-15	5/8			6 1/4			BAKE TEMP.
S-14			5/8	Loz/gal.		50	AIR DRIES IN 18 hrs.
							A. O. TO RECOAT IN 72 hrs.
							REMARKS:
							Changed to include more Rutile TiO ₂
							* REISSUED to correct formula-DESTROY
							previous copy sent you.
							FORMULATOR Romans
YIELD							25-8-8

