

FILMED

Product **Endurance Imperial House Paint**Formula Number **Y-1867-J**

Customer

Laboratory Number

R.H. Cost

Date **4/5/67**

CODE NUMBER

100 GALLON BATCH

% BY

MANUFACTURING
INSTRUCTIONS

Mill

Grind

GALLONS

POUNDS

WEIGHT

NPVLA

%Lead

Label Warning

METHOD

Wt./Gal.

Flash Pt. °F.

DISCONTINUED: REPLACED WITH Y-1800-G

N.V.W.

N.V.Val.

Per T. 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

Retort Time

Remarks

Yield

Formulator

Approved by

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**

Customer

Laboratory Number

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

SL and

1 plus

Label Warning

14-62

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

Container

Application

Brush

Cure

Air Dry! Overnight

Recoat:

72 hrs.

Remarks

Formulator

Green/Southwick

Approved by

Bowell

Standard Formula
not to be taken
from File

Yield

100.11

1426.9

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%

Mineral Spirits & Driers 21.4

100.0%

Manufacturing Instructions or Remarks

Stamped #6 5-10-67 per TKT

NO CHANGE IN ANALYSIS

V-1867 665

Product: ENDURANCE IMPERIAL HOUSE PAINT				Formula Number: Y-1267-J	
Customer:				Laboratory Number:	
CODE NUMBER	100 GALLON BATCH		% BY WEIGHT	MANUFACTURING INSTRUCTIONS	R. M. Fox Pebble/Date 5/5/66
	GALLONS	POUNDS			
W-280	5.22	170.0			% Lead More than 1%
W-290	2.61	90.0			Wt./Gal. 14.2 Method 5-A-1
W-35	6.50	305.0			Flash Pt. F. 100°F Method
W-188	12.86	303.0			N.V. Wt. 91.6% Method
W-218	0.23	3.5		} Pre-mix and add } Immediately to } mill.	N.V. Vol. 82.4% Method
S-91	0.25	1.8			Visc. F. & B. 82-87 K Method 4-C-
					Visc. Red. Method
O-132	34.60	269.0			Reducer S-43 Ratio
V-855	11.20	93.0			P.V.C. 33.2 pH
O-286	9.20	74.0			Color White Match
S-43	11.70	76.0			
S-148	4.50	30.0			Glass 70 Min. Method 9-A-1
VH-432	1.13	10.7			Strainer
VH-534	0.11	0.9			Container
					Label Warning #14-62 NEVLA
					Application Brush
					Cure Overnight
					Recoat: 72 hours.
					Remarks
					Formulator Green/Southwick
					Approved by S.T. Rowell
Yield:	100.11	1426.9			

Standard Formula
 Not to be taken
 from file.

CLASS						5/5/66	ANALYSIS	Y-1867-
CODES							Pigment 61.0 %	
DESCRIPTORS (20 spaces - 11mls)							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	32.1
								100.1
Resins	Linseed Alkyd Resin							
Color	White		Gloss	70 Min.				
For Use On								
Resistance							Vehicle	
Manufactured at Plants	#1-2-4-5-8-12-14-16-17						Linseed Alkyd Resin	78.
	Lic. no. "A" Lic. 6-30-66 (B)						Mineral Spirits & Driers	21.
	Casta Rica 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	5-15-66
							#11-15	
							Y-1867	665

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

GLD059094

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/
	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	} Promix 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

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

Formula Number : X-1867-J

Laboratory Number **(Temporary)**

R.H. Case	Location	Date
Mill	Pebble or Grind	7/13/6

29 Lead Home from 14

Wt./Gal.	74.2	Method	
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Flash Pt. °F.	Method
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N.Y. No.	Method
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N.Y. Vol.	Method
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Visc. F.B. 82-87 Mapod

Visc. Red.	Method
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
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78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Reducer	Ratio
1	1.0
2	1.0
3	1.0
4	1.0
5	1.0
6	1.0
7	1.0
8	1.0
9	1.0
10	1.0
11	1.0
12	1.0
13	1.0
14	1.0
15	1.0
16	1.0
17	1.0
18	1.0
19	1.0
20	1.0
21	1.0
22	1.0
23	1.0
24	1.0
25	1.0
26	1.0
27	1.0
28	1.0
29	1.0
30	1.0
31	1.0
32	1.0
33	1.0
34	1.0
35	1.0
36	1.0
37	1.0
38	1.0
39	1.0
40	1.0
41	1.0
42	1.0
43	1.0
44	1.0
45	1.0
46	1.0
47	1.0
48	1.0
49	1.0
50	1.0
51	1.0
52	1.0
53	1.0
54	1.0
55	1.0
56	1.0
57	1.0
58	1.0
59	1.0
60	1.0
61	1.0
62	1.0
63	1.0
64	1.0
65	1.0
66	1.0
67	1.0
68	1.0
69	1.0
70	1.0
71	1.0
72	1.0
73	1.0
74	1.0
75	1.0
76	1.0
77	1.0
78	1.0
79	1.0
80	1.0
81	1.0
82	1.0
83	1.0
84	1.0
85	1.0
86	1.0
87	1.0
88	1.0
89	1.0
90	1.0
91	1.0
92	1.0
93	1.0
94	1.0
95	1.0
96	1.0
97	1.0
98	1.0
99	1.0
100	1.0

P.V.C. PH

[illegible]

Class _____ Method _____

Gross 70 Mln. Net 10 Mln.
Stranger

Container

Label Warning #14-62 UNIT 1

Application **Smith**

Cure: Overweight

~~Recsat: 72 hours~~

Remarks. To use up stocks of

~~CONFIDENTIAL~~ ~~SECRET~~

Approved by S. P. 11

D. DUBIEL

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 (Therminol) 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

STRAINER : GRIND 3-4

~~DISC-EXR~~ Reissued to use Tallates

MILL COWLES RT. 14.3

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH		IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.	WT. OF BR.
0-132				28.3	(220.0)		VISC. F.B. 82-87 KU TEMP. 80°F
V-855				11.2	(93.0)		VISC. RED. TEMP.
0-286				9.2	(74.0)		VISCO-SINETER Stormer
							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. D. 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		

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT 61.1 % VEHICLE 38.9 % 100.0%	Barker-Karpis Gang 12/15/32
		PIGMENT Titanium Dioxide 27.4% Magnesium Silicate 35.4% 10% Zonobacil Leaded Zinc Oxide 37.3% 100.0%	Waxing No. 14-6 12/19/32
			No change in analysis
			Enamel Flat 2-8-63 Plants #1-2-4-6-8-11-14-15-16
		VEHICLE Linseed Oil, Alkyd Resin 78.33 Mineral Solvents & Others 21.67 100.0%	Zies 1-3-64 = (K) 24 #30 (Thermal) 2-24-60
X-1067			206

FORMULA RECORD				FORMULA NO. 7-1867-H(N.O. A.I.)		
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				(2.487)	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	(30.7)	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%	
			DI(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

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: MILD. 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 NFVLA

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		NEW ORLEANS	IS AGITATOR REQUIRED	
	PINTS	LBS.	OZS.	GALS.	LBS.		VISC. F. 82-87KV	TEMP. 80°F
N-249				(6.82)	325.0		VISC. RED.	TEMP.
N-280				(4.31)	140.0		VISCOSMETER Stormer	
N-290				(2.99)	103.0		COLOR White	SHEEN
N-188				(12.90)	303.5		NON VOL 91.7%	FLASH PT. 100°F
VM-306				(0.06)	4.4		MATCH FOR	
N-218)				(.18)	2.7		REDUCER S-43	
S-91)				.20	(1.35)		ANT. FOR BRUSHING	
							SPRAYING	TUMBLING
O-132				34.6	(269.0)		DIPPING	DIP TIME
O-286				9.6	(74.0)		BAKE	TEMP.
V-855				11.2	(93.0)		N.V. Vol 82.1% PVC 33.1%	
S-43				12.0	(78.0)		AIR DRIES IN O.N.	
S-148				4.5	(30.0)		A. D. TO RECOAT IN 72 hrs.	
							REMARKS:	
VM-432				1.13	(10.7)		Void formula	
VM-534				.11	(0.9)		Date 1-25-65	
VM-659				.50	(4.05)		Changed to use active raw material	
YIELD				100.56	1438.63		FORMULATOR J.C. Padarra	

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		AMT. 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
				100.03	1432.5		

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 KU _{25°} 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 CO. 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	(20.7)		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			AGT. FOR BRUSHING	As needed
V-855	1-1/4			11-1/2			TRAILING	
O-286	1			9-1/4			DIPPING	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]

GLOU59120

FORMULA-RECORD

FORMULA NO. Y-1867-D

Endurance Imperial House Paint - White

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS.

DATE

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STRAINER

GAIN

CUSTOMER

MILL

Pebble

WT. OR BE

15#

[illegible]

COST	DATE	ANALYSIS		CUSTOMERS	Y-1867-D
		PIGMENT	62.0 %		10/21/53
		VEHICLE	38.0 %	Endurance Imperial House Paint	
			100.0 %	White	
		PIGMENT		All Planto - V-Test	11-3-53
		35% Leadad Zinc Oxide	42.6%		
		Titanium Oxide	23.0		
		Barium Sulphate	19.1		
		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-S 11-12-53
		VEHICLE 38.0 %	
		100.0 %	3 sets (Kings) (For Lube) 7-29-54 Montreal (St. Lawrence) (Tor.) 6-7-54 Chile 11-24-53
		PIGMENT	
		35% Loaded Zinc Oxide 42.5%	
		Titanium Oxide 23.0	Powder 3-29-56
		Barium Sulphate 18.1	Braden (Chile) 5-16-56
		Magnesium Silicate 15.3	Columbian 7-10-53
		100.0 %	
		VEHICLE	
		Linseed Oil 71.55%	
		Linseed Alkyd 17.00	
		Mineral Spirits 9.30	
		Liquid Drier 2.15	
		100.00 %	
		PVC = 28.9%	
		Y-1867	3501

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			5-1/4			AIR DRIES IN	18 hrs.
S-14			5/8 Oz/gal.			50	A. D. TO RECOAT IN	72 hrs.
Changed to use W-188							REMARKS:	
Standard Formula. Not to be taken from File								
YIELD	1.32						FORMULATOR	Homans 25-6

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT	60.7 %	<i>Trade Sales - Y-List</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

GO25

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 HE 15

[illegible]

Standard Formula
to be 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 TUMBLING
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

GLD059129

