

N16263

MANUFACTURING INSTRUCTIONS:			Rex 458		
1 gals. of (798) may replace			DATE	SLIP NO.	AMOUNT
1 gals. of (2) to improve flow.			<i>May 2-20-51</i>	<i>2</i>	
			<i>May 2-20-51</i>	<i>2</i>	
			<i>May 2-20-51</i>	<i>2</i>	
			<i>May 2-20-51</i>	<i>2</i>	
			<i>May 2-20-51</i>	<i>2</i>	
APPLICATION: SURFACE Wood Ext.			<i>May 2-20-51</i>	<i>2</i>	
NO. COATS one			<i>May 2-20-51</i>	<i>2</i>	
UNDERCOATER USED Rx 450			FACTORY	FORMULA	SPEC. CARD
METHOD 1 Brush			KING. COST DEPT.	<i>4</i>	
REDUCTION: AMOUNT _____ REDUCER USED _____			CLEVELAND	<i>11/10/51</i>	<i>6-15-51</i>
METHOD 2 _____			KENSINGTON	<i>4</i>	<i>2-20-51</i>
REDUCTION: AMOUNT _____ REDUCER USED _____			ALLIED RESEARCH	<i>4</i>	
			KING. TECH. SERV.	<i>4</i>	
			KENS. LACQUER	<i>4</i>	
			NEWARK	<i>4</i>	<i>2-20-51</i>
DYEING TIME TOUCH 8-12hrs RECOAT 2-4days			OAKLAND	<i>4</i>	<i>2-20-51</i>
HARD _____ SAND _____ HANDLE _____			M. SENOUR	<i>4</i>	
TACK FREE _____ RUB _____ WRAP _____			DETROIT	<i>4</i>	
BAKING TIME AND TEMP. _____			LOS ANGELES	<i>4</i>	
GLOSS Oil FILM Med. Hard & Elast			DALLAS	<i>4</i>	
SPECIAL TESTS _____			DAYTON	<i>4</i>	
			CHESBORO	<i>4</i>	
			BAC. MFG.	<i>4</i>	
			CUBA	<i>4</i>	
			MONTREAL	<i>4</i>	
			BUENOS AIRES	<i>4</i>	
			OSAKA	<i>4</i>	
			RES ADM.	<i>4</i>	
			INDEX	<i>4</i>	

FORMULA RECORD 6

CONTROL LAB Cleveland T. S.

DATE 7-20-51

REV. NO. 158

NAME S W P Plymouth Green

CARD NO. 21

CUSTOMER Sherwin-Williams Co.

MFG. INSTR.

POUNDS	GALLONS	NEW MAT'L	OLD MAT'L
70	3.2	6202	6202
150	6.3	6232	312
300	11.1	6685	2110
300	6.2	6810	112
100	2.1	6822	1121
18	.4	7850	178
1	.1	816	1826
1(5)		BY 1	BY 1
1		BB 10	BB 10
1		BL 11	BL 11
9	10 1/2	(27A7)	(27A7)
96	12	(25A22)	(25A22)
155	20	(1521)	(2 -)
81	10 1/2	(1521)	(2 -)
13	1 3/4	(902)	(1230)
1	5/8	(918)	(513)
112	17	(151)	(5027)

WT./GAL 14.5 VISC. 30 2 sec. @75 deg. F

GRIND 2H VISC. on #3 cup

OUTPUT 100

MFG. LOSS 2%

STOR. LOSS

SOLIDS

PARALLELS no

BLEED

DEPT. PK

MILL Roller LINING

RATE/HR. LAB. ANALYSIS G

FLASH PT. 100°F LABEL NO. RED ☒ RED ☐

ROYALTY: YES ☐ NO ☐ X ☐ W ☐

REASON FOR REV. add special test.

FORMULA By Thompson SUPT. ATB

0007-SWP-061739

0007-SWP-061746

FORMULA RECORD 6

CONTRACT 133 Cleveland T. S.

DATE 4-4-52

REV. NO. 458

AIRB

NAME S W P Plymouth Green

CARD NO. 15

POUNDS	GALLONS	MATERIAL NO.	CUSTOMER
350	14.7	20 or 312	Sherwin-Williams Co. Co.
125	3.6	2174 or 100	Neutral Oil Std. #84
40	1.5	2140	
300	6.2	412	REASON FOR REVISION Lowering total zinc content to conform with tints.
100	2.1	6802 or 1424 or	
		6828	
20	.5	478	VISCOSITY 30# 35 de 50 HAS. AFTER GRIND
?(7)		BY 1	VISCOSITY ON #3 CUP 35 de 50 HAS. AFTER GRIND
?		BB 10	% SOLIDS (RUN)
?		BL 44	WT./GAL 14.57
			BAUME
4	1/2	(5094)	STD. 2H
251	32 1/2	(2)	NORMAL OUTPUT 100
153	19	(310)	EST. MFG. LOSS 2%
			DEPARTMENT
9	1 1/4	(4230)	PACKAGE
5	3/4	(543)	PARALLEL NO.'S
27	4	(141)	No Parallel
99	15 1/4	(348)	
			ROYALTY: YES ☐ NO ☒ X LIT
			LABEL ANALYSIS CHECKED 8
			LABEL NO. RED ☒ RED ☒ 16
			NEW STD. SAMPLE REQUIRED
			DATE
			MILL NO. 6 BLEED?
			LBS. OR GALS. PER HOUR
			APPROVED
			FORMULATOR
			SUPT. 276

It is permissible to replace up to 8 gal of (2) with 8 gal. of (798) to get proper flow

Method 1 Brush

Reduction: Amount _____ **Reducer Used** _____

Method 2

Reduction: Amount_____ **Reducer Used**_____

Drying Time: Touch 6 hrs Recoat 4-5 days Stencil

Hard Sand Handle

Tack Free _____ Rub _____ Wrap _____

Baking Time and Temp.

Gloss Oil Film Med. Hard, Elastic

Special Tests.

Q 10/2/47 & 11/28/47

DATE	SLIP No.	AMOUNT
<i>Memorandum</i>	<i>9-3047</i>	
<i>Original</i>	<i>"</i>	
<i>Q. Schwartz</i>	<i>9/12/42</i>	
FACTORY	FORMULA	SPEC. CARD
Exec. Cost Dept.	<i>"</i>	
Cleveland	<i>A</i>	
Kensington	<i>C</i>	<i>9-3047</i>
Allied Research	<i>"</i>	
Kens. Tech. Serv.	<i>"</i>	
Kens. Lacquer	<i>"</i>	
Newark	<i>N</i>	
Oakland	<i>O</i>	
M. Senior	<i>M</i>	
Detroit	<i>D</i>	
Los Angeles	<i>P</i>	
Dallas	<i>T</i>	
Dayton	<i>B</i>	
Gibbsboro	<i>F</i>	
Pittsburgh	<i>H</i>	
Cuba	<i>V</i>	
Montreal	<i>"</i>	
Buenos Aires	<i>Z</i>	
Brazil	<i>"</i>	
<i>Flamm</i>	<i>"</i>	
<i>5-5</i>	<i>"</i>	

CONTROL 1A			FORMULA RECORD 6	
NAME S W P Plymouth Green			DATE 2-16-51	REX. NO. 458
			CARD NO. 14	
POUNDS	GALLONS	MATERIAL NO.	CUSTOMER Sherwin-Williams Co. <i>ln</i>	
350	7.2	412 or 413	TO MATCH Standard	
50	1.1	1424 or 6828 or 1412	REASON FOR REVISION To revert back to lower Ti Cal content reducing chalking tendencies.	
125	3.6	2174 or 1004		
40	1.5	2140		
350	14.7	20 or 312		
20	.5	478	VISCOSITY 30-38" 475° F AT HRS. AFTER GRIND	
?(7)		BY 1	VISCOSITY OF #3 CAB AT HRS. AFTER GRIND	
?		BB 10	% SOLIDS (RUN) ROYALTY YES, NO, X, C, V, L, P, S	
?		BL 44	WT./GAL T 14.58 LABEL ANALYSIS CHECKED	
4	1/2	(5094)	BAUME LABEL NO. RED, RED, RED	
251	32 1/2	(2)	STD. OF FINENESS 2H NEW STD. SAMPLE REQUIRED	
153	19	(310) or (48)	DATE REC'D	
9	1 1/4	(901) or (900)	EST. MPG. LOSS 2% MILL Roller BLEED?	
5	3/4	(543)	DEPARTMENT	
27	4	(141)	PACKAGE	
99	15 1/4	(348)	PARALLEL NO.'S No Parallel	
			Supt. <i>St. L.</i>	

0007-SWP-061743

MANUFACTURING INSTRUCTIONS:				458		
4 gals of (798) may be used to re-				DATE	SLIP NO.	AMOUNT
place 4 gals of (2) to improve flow.				<i>Wm. B. B.</i>	<i>10/14/42</i>	
				<i>W. B. B.</i>	<i>"</i>	
				<i>W. B. B.</i>	<i>"</i>	
				<i>W. B. B.</i>	<i>"</i>	
				<i>W. B. B.</i>	<i>"</i>	
APPLICATION: SURFACE <u>Wood Bldg.</u>				<i>W. B. B.</i>	<i>"</i>	
NO. COATS <u>One</u>				<i>W. B. B.</i>	<i>"</i>	
UNDERCOATER USED <u>Rx 450</u>				FACTORY	FORMULA	SPEC. CARD
METHOD 1 <u>Brush</u>				EXEC. COST DEPT.	<i>"</i>	
REDUCTION: AMOUNT _____ REDUCER USED _____				CLEVELAND	<i>"</i>	
METHOD 2 _____				KENSINGTON	<i>"</i>	<i>10/14/42</i>
REDUCTION: AMOUNT _____ REDUCER USED _____				ALLIED RESEARCH	<i>"</i>	
				KENS. TECH. SERV.	<i>"</i>	
				KENS. LACQUER	<i>"</i>	
				NEWARK	<i>"</i>	<i>10/14/42</i>
DRYING TIME: TOUCH <u>6-8hrs</u> RECOAT <u>2-4days</u> STENCIL _____				OAKLAND	<i>"</i>	
HARD _____ SAND _____ HANDLE _____				M. SENOUR	<i>"</i>	
TACK FREE _____ RUB _____ WRAP _____				DETROIT	<i>"</i>	
BAKING TIME AND TEMP. _____				LOS ANGELES	<i>"</i>	
GLOSS <u>Oil</u> FILM <u>Med. Hard & Elastic</u>				DALLAS	<i>"</i>	
SPECIAL TESTS _____				DAYTON	<i>"</i>	
				GIBBSBORO	<i>"</i>	
				EXEC. MFG.	<i>"</i>	
				CUBA	<i>"</i>	
				MONTREAL	<i>"</i>	
				BUENOS AIRES	<i>"</i>	
				BRAZIL	<i>"</i>	
				RES ADM.	<i>"</i>	
				MEXICO	<i>"</i>	

FORMULA RECORD 6			A135	
CONTROL LAB		Cleveland T. S.	DATE	12-7-50
NAME		S W P Plymouth Green	REX. NO.	458
			CARD NO.	11
POUNDS	GALLONS	MATERIAL NO.	CUSTOMER Sherwin-Williams Co.	
350	7.2	412 or 413	TO MATCH Neutral Oil Standard #84.	
50	1.1	1424 or 1412		
125	3.6	2174 or 1004	REASON FOR REVISION To increase Viscosity	
40	1.5	2140	and conserve titanium and leaded	
350	14.7	20 or 312	Zinc.	
20	.5	478		
(?)7		BY 1	VISCOSITY 30-38" 275°F	
?		BB 10	VISCOSITY #3 CUP	
?		BL 44	ROYALTY: YES ☐ NO ☒ X	
4	1/2	(5094)	LABEL ANALYSIS CHECKED DATE 12-1-50	
251	32 1/2	(2)	LABEL NO. RED ☒ RED ☐	
153	19	(310) or (48)	NEW STD. SAMPLE REQUIRED	
9	1 1/4	(4230) (901) (900)	DATE REC'D	
5	3/4	(543) 1-5	MILL FOLLOWS? ☒	
27	4	(141)	LBS. OR GALS. PER HOUR	
99	15 1/4	(348)	APPROVED	
			FORMULA NO.	
			No Parallel	
			SUIT	

0007-SWP-061745

MANUFACTURING INSTRUCTIONS: is permissible to			DATE	SLIP No.	AMOUNT
use up to 4 gal of (798) in place of			<i>R. Schantz</i>	<i>7/5/47</i>	
(2) for better flow.					
When using BW 102					
Replace: 20 gal (2) with 16 1/2 gal of (2); use 199# BW 102 in					
place of 169# of 18 dry; Use 5/8 gal of 12W in place of 7/8 gal					
Application: Surface Buildings					
Undercoater Used					
No. Coats <i>One</i>					
No. Coats					
Method 1 <i>Brush</i>			FACTORY	FORMULA	SPEC. CARD
Reduction: Amount			Exec. Cost Dept.		
Reducer Used			Cleveland	A	
Method 2			Kensington	C	<i>8-8-47</i>
Reduction: Amount			Allied Research		
Reducer Used			Kens. Tech. Serv.		
Drying Time: Tough hrs.			Kens. Lacquer		
Record <i>5 days</i>			Newark	N	
Stencil			Oakland	O	
Hard			M. Senour	M	
Sand			Detroit	D	
Tack Free			Los Angeles	P	
Rub			Dallas	T	
Wrap			Dayton	B	
Baking Time and Temp.			Gibbsboro	F	
Gloss <i>Oil</i>			Pittsburgh	H	
Film Med. Hard, Elastic			Cuba	V	
Special Tests			Montreal		
			Buenos Aires	Z	
			Brazil		
<i>d/1/4/47 d/1/2/47</i>					

FORMULA RECORD			AT35 WHITE	
Exp. No.	Date	9/18/47	Class	6
Name	S W P Plymouth Green		Res. No.	458 - Alt. B
			Card No.	4 Replaces No. 3
POUNDS	GALLONS	MATERIAL NO.	Customer	S W Co.
175		20 L	To Match	Std.
650		412		
19		DX 639	Reason for Revision	To use CW 2035 in
7		BY 1	(13 gl (3316))	conserve linseed.
?		BB 10	(15 (2))	
?		BL 44	(5 (CW 2035))	
7	7/8	(127)	(8 (3316))	
104	13	(48)	Viscosity	(2) 25-30 @ 75° at hrs. after grind
108	14	(2)	Viscosity	On #3 Cup at hrs. after grind
46	6	(CW 2035) or	% Solids (Run)	Royalty: Yes ☐ ; No ☐ ; X ☐ ; W ☐
48	5	(48)	Wt./Gal.	T 14.07 Label Analysis Checked-Date
69	9	(CW 2035)	Baume	Label: No Red ☐ ; Red ☐
23	3	(4230)	Std. of Fineness	New Std. Sample Required
3 1/2	1/2	(4232)	Normal Output	100 Date Rec'd
7	1	(543)	Est. Mfg. Loss	2% Mill Bleed?
146	22 1/2	(348)	Department	Lbs. or Gals. per hour
27	4	(141)	Package	Approved
175#	20 L	or	Parallel No.'s	Formulator
85#	1989	107 2203		Supt. <i>StE</i>
85	2201	or 54 2201		

MANUFACTURING INSTRUCTIONS:

263# { 225 # Load
4 3/8 fls (5091)
1/2 fl (12) W

Application: Surface Buildings No. Coats one
Undercoater Used No. Coats

Method 1 Brush
Reduction: Amount Reducer Used
Method 2
Reduction: Amount Reducer Used

Drying Time: Touch 6 hrs Recoat 4-5 days Stencil
Hard Sand Handle
Tack Free Rub Wrap

Baking Time and Temp.
Gloss Oil Film Med. Hard, Elastic

Special Tests

[illegible]

FORMULA RECORD 6			AI35	
CONTROL LAB		Cleveland T.S.	DATE	10/12/49
NAME		S W P Plymouth Green	REV. NO.	458
			CARD NO.	5
POUNDS	GALLONS	MATERIAL NO.	CUSTOMER	
440	9.1	413 or 412	Sherwin Williams Co.	
137	3.9	2174 or 1004	TO MATCH	
325	13.7	20 or CW 2747	Standard	
20	.5	478	REASON FOR REVISION	
7	.5	BY 1	To bring formula up to date.	
?		BB 10		
?		BL 44		
4	1/2	(5094)	VISCOSITY	
230	29 3/4	(2)	25-30 deg F. HRS. AFTER GRIND	
153	19	(48)	On #3 Cup AT 2 HRS. AFTER GRIND	
			% SOLIDS (RUN)	
			WT/GAL T 14.48	
			BAUME	
5	3/4	(543)	LABEL ANALYSIS CHECKED DATE 7/24	
9	1 1/4	(4230)	LABEL NO. REDETERMINED	
128	19 3/4	(348)	NEW STD. SAMPLE REQUIRED	
27	4	(141)	DATE REC'D	
			EST. MFG. LOSS 2%	
			MILL Roller BLEED?	
			DEPARTMENT	
			LBS. OR GALS. PER HOUR	
			PACKAGE	
			APPROVED	
			PARALLEL NO.'S	
			FORMULATOR	
			No parallel	
			SUPT.	

0007-SWP-061749

TO MATCH <u>Neutral Oil Std. #85</u>			REC. NO. <u>8-26-54</u>		
APPLICATION: SURFACE <u>Wood Ext.</u>			CARD NO. <u>7</u>		
NO. COATS <u>1 & 2</u>			DATE <u>8-26-54</u>		
UNDERCOATER USED <u>Rx 450</u>			7		
METHOD 1 <u>Brush</u>			DATE		
REDUCTION: AMOUNT			SPEC. NO.		
REDUCER USED			AMOUNT		
METHOD 2					
REDUCTION: AMOUNT					
REDUCER USED					
DRYING TIME: TOUCH <u>8-12 hr</u>			FAC. NO.		
RECOAT <u>2 days</u>			FORMULA		
HARD			SPEC. CARD		
SAND					
HANDLE					
TACK FREE					
RUB					
WRAP					
BAKING TIME AND TEMP.			EXEC. COST DEPT.		
GLOSS <u>Oil</u>			CLEVELAND		
FILM <u>Elastic</u>			KENSINGTON		
SPECIAL TESTS <u>Shake sharply 10 times prior to viscosity determination.</u>			PAINT RESEARCH		
			KENS. TECH. SERV.		
			KENS. LACQUER		
			NEWARK		
			OAKLAND		
			M. SENOUR		
			DETROIT		
			LOS ANGELES		
			DALLAS		
			DAYTON		
			GIBBSBORO		
			EXEC. MFG.		
			CUBA		
			MONTREAL		
			BUENOS AIRES		
			BRAZIL		
			RES ADM.		
			MEXICO		

A135 WHITE

POUNDS	GALLONS	MATERIAL No.
175		20 L
480		414
169		18
19		BX 639
7		BY 1
?		BB 10
?		BL 44
	7/8	(12)W
154	20	(2)
103	13	(3316)
70	9	(2)
48	6	(3316)
23	3	(4230)
3 1/2	1/2	(4232)
?	1	(543)
145	22 1/2	(348)
27	4	(141)
175#	20 L or	
85#	1989	107# 2203
85#	2201	54# 2201

Customer S. W. Co.
To Match Std.

Reason for Revision To use 414 dry in place
of 412 dry.

Viscosity 2000 1000 500 250 125 62.5 31.25 15.625 7.8125 3.90625
Viscosity 1000 500 250 125 62.5 31.25 15.625 7.8125 3.90625
% Solids (Wt) 40
Wt./Gal. 14.11
Baume 34
Std. of Fineness 20
Normal Output 100
A. L. No. Los 2%
Department Roller
Package 50
Parallel No.'s 100

Royalty: Yes ☐; No ☒; X ☐; W ☐
Label Analysis Checked-Date 10/2/47
Label: No Red ☐; Red ☐
New Std. Sample Required ☐
Date Rec'd 10/2/47
Lbs. or Gals. per hour 100
Bleed? ☐
Approved C. F. C. W.
Formulator S. F. C. W.
Supt. S. F. C. W.

TO MATCH <u>Neutral Oil Std. #85</u>			REX NO. <u>155</u> CARD NO. <u>21</u> DATE <u>6-11-51</u>		
APPLICATION: SURFACE <u>Wood Ext.</u>			NO. COATS <u>one</u> UNDERCOATER USED <u>Rx 450</u> METHOD 1 <u>Brush</u> REDUCTION: AMOUNT _____ REDUCER USED _____ METHOD 2 _____ REDUCTION: AMOUNT _____ REDUCER USED _____		
DRYING TIME: TOUCH <u>8-12hrs</u> RECOAT <u>2-4days</u> STENCIL _____ HARD _____ SAND _____ HANDLE _____ TACK FREE _____ RUB _____ WRAP _____ BAKING TIME AND TEMP _____ GLOSS <u>Oil</u> FILM <u>Elastic</u> SPECIAL TESTS _____			SLIP NO. _____ AMOUNT _____ FACTORY _____ FORMULA _____ SPEC. CARD _____ EXEC. COST DEPT. _____ CLEVELAND _____ KENSINGTON _____ PAINT RESEARCH _____ KENS. TECH. SERV. _____ KENS. LACQUER _____ NEWARK _____ OAKLAND _____ H. SENOUR _____ DETROIT _____ LOS ANGELES _____ DALLAS _____ DAYTON _____ GIBBSBORO _____ EXEC. MFG. _____ CUBA _____ MONTREAL _____ BUENOS AIRES _____ BRAZIL _____ RES ADM _____		

FORMULA RECORD			Alt. A.	
Exp. No.	Date	Class	Alt. No.	Alt. 2-4-5
Name	11-9-45	6 TS	458	
S W P Plymouth Green		Card No.	Replaces No.	
POUNDS	GALLONS	MATERIAL No.	Customer	S.W. Co.
175		20 L	To Match	STD.
425		2059	Reason for Revision	Alt. use of 2059 and
263		BW 102-over		BW 102 during present shortage
19		EX 639		of 412 dry.
7		BY 1	Viscosity	25-30" @ 75°F
?		BB 10	Viscosity	
?		BL 44	% Solids (Run)	14.15
("Use ONLY in reconversion "EMERGENCY".)			Wt./Gal.	3H
	3/8	(12) W	Baume	100
	15 5/8	(2)	Std. of Fineness	Normal Output
	13	(48) C	Est. Mfg. Loss	2%
	4	(2)	Department	
	11	(48)	Package	
	3	(4230)	Parallel No.'s	
	1	(543)		
	23 1/2	(348)		
	4	(141)		
			Royalty: Yes ☐ ; No ☐	
			Label Analysis Checked-Date	
			Label: No Red ☐ ; Red ☐	
			New Std. Sample Required	
			Date Recd.	
			Mill	Hobler
			Bleed?	
			Lbs. or Gals. per hour	
			Approved	Wm Budzick
			Formulator	QBX
			Supl.	

0007-SWP-061753

MANUFACTURING INSTRUCTIONS. 4 gals (790)
may replace 4 gals (2) to improve
flow.

Rex L59

APPLICATION: SURFACE Wood Ext.

NO. COATS one

UNDERCOATER USED Rr 450

METHOD 1 Brush

REDUCTION: AMOUNT

REDUCER USED

METHOD 2

REDUCTION: AMOUNT

REDUCER USED

DRYING TIME: TOUCH 8-12hrs RECOAT 2-4days STENCIL

HARD

SAND

HANDLE

TACK FREE

RUB

WRAP

BAKING TIME AND TEMP.

GLOSS Oil

FILM Mod. Hard & Elasti

SPECIAL TESTS

DATE	SLIP NO.	AMOUNT
3-1-51		
FACTORY	FORMULA	SPEC. CARD
EXEC. COST DEPT.		
CLEVELAND A	1694	6-15-51
KENSINGTON C		3-1-51
ALLIED RESEARCH		
KENS. TECH. SERV.		
KENS. LACQUER		
NEWARK N		3-1-51
OAKLAND O		
M. SENOUR M		3-1-51
DETROIT D		
LOS ANGELES P		
DALLAS T		
DAYTON I		
GIBBSBORO F		
EXEC. MFG.		
CUBA H		
MONTREAL G		
BUENOS AIRES Z		
BRAZIL S		
RES ADM		
MEXICO		