

Cross Index:

80 Line
W-43 "TiPure" R-510
W-28 "Ti-Pure" R-110

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MEMORANDUM REPORT NO. M-300:

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EVALUATION OF PIGMENT "Z" (D.S.20614 LOT C-3142)
IN BRUSH "DUCCO"

Introduction:

1. This report covers the initial laboratory results obtained with the above lot of "Z" Pigment as a replacement for W-43 "Ti-Pure" R-510 in current Brush "Ducco" type formulation. This lot is not representative of the ultimate material to be used in large scale plant evaluation which is identified as Lot C-3203 and which its evaluation will be covered in separate report.

2. This pigment was tested in both the white and an intermediate shade (Jade Green) and as an added control, W-28 was also included in the evaluation.

Summary:

(a) Initial results have indicated this pigment to be a closer duplicate to W-28 rather than W-43 particularly with respect to gloss retention.

(b) The table attached will show the results of the tests thus far completed.

Details:

(a) The above enamels were out to equal solids.

(b) These enamels are exposed for YD and YI evaluation (Series No. 11320) and for exterior durability (Series No. 11328).

(c) The above experiments are recorded in Book No. 5157.

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BLM:hfm
ATTACH:

N35409

(TABLE) MEMORANDUM REPORT NO. 300

Properties	<u>80-R-59634</u> <u>W-43(White)</u>		<u>80-R-59635</u> <u>W-28(White)</u>		<u>80-R-59636</u> <u>"Z" Pig. (White)</u>		<u>80-R-</u> <u>59637 W-43</u> <u>(Jade Green)</u>		<u>80-R-</u> <u>59638 W-28</u> <u>(Jade Green)</u>		<u>80-R-</u> <u>59639 "Z" Pig.</u> <u>(Jade Green)</u>	
	10.1	10.1	10.1	10.1	10.1	10.1	9.7	9.7	9.7	9.7	97	97
<u>Wt./Gal.</u>												
<u>Viscosity</u>												
#10 Cup												
Initial	65"	71"	71"	72"	72"	72"	68	73	73	82	82	82
2 days	82"	89"	89"	98"	98"	98"	106	105	105	120	120	120
9 "	77"	79"	79"	85"	85"	85"	99	99	99	113	113	113
1 Mo.	92"	95"	95"	100"	100"	100"	127	124	124	138	138	138

A.S.T.M. Gloss

Initial	93	92	92	91	91	90
9 days	85	81	77	86	84	84
1 Mo.	83	72	74	84	82	72

<u>Brushing</u>	Std.	= to std.	= to std.	Std.	= to std.	= to std.
<u>Drying</u> 8 Hrs.	T.F.	T.F.	T.F.	T.F.	T.F.	T.F.
24 hrs. Hardness	V.Good Std.	= to std.	= to std.	V.Good Std.	= to std.	= to std.
<u>Initial Color</u>	Good std.	Slt.+	Slt. +	Std.	= to std.	= to std.
<u>Flow</u>	Good std.	Slt-	= to std.	Good std.	= to std.	= to std.
<u>Build</u>	Good std.	= to std.	= to std.	Good std.	= to std.	= to std.