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JUNE RESEARCH REPORT

1965.

Coatings and Resins Group

CONFIDENTIAL

GLD012943

Appearance to Date

Y-1800	good
Y-1850	good-fair
SWP 471	good-fair
Sears 143	good
Sears Snowwhite	good-fair
Dutch Boy	good
DeVoe 1601	good-fair
DeVoe 101-04	good
DuPont 40	good-fair
Pitts. Titanic	good

Subject: Competitive House Paints - Chalking Type
(NT24069HC262)

Contributors: W. Green, J. Davis, J. Southwick

Summary: An evaluation of competitive house paints has been started. Exposures have been made in Cleveland, New Orleans and Baltimore. This report covers the initial performance of these paints.

The following table lists the properties and general analysis of the paints tested. Correlation between visual hiding and actual TiO_2 content is good. Dutch Boys actual hiding is higher than its TiO_2 indicates because of large amounts of lead pigment. Pittsburgh rates higher because part of its TiO_2 is present as titanium calcium. Master Mix rates lower than its TiO_2 content predicts because of poor dispersion. None of these paints show any great brushing advantage. This may be attributed to the small areas used in testing these paints.

(Table may be seen on page

Subject: Spred Lustre
(NT23048AD263, NT23053AD268)

Contributors: J. Bednarik, J. Southwick

Summary: Spred Lustre Reformulation

Work on a Spred Lustre reformulation is progressing rapidly on several systems.

Spred Lustre Colors and Dramatone Bases

A system of V-891 and V-863/V-869 modified with O-315 for lapping is fairly well established. The formulation offers high vehicle solids (42-44%), lower TiO_2 content due to reduced flocculation, and good brushing-flow control due to the use of Thixcin and Cowles production. Work has included the formulation of a pre-dispersion Thixcin base for plants that cannot control dispersion temperature to a

maximum 125-130°F. Final formulation for gloss and flow is all that remains to be done.

Spred Lustre White

Due to the yellowing of the above system a separate formulation is being developed for Spred Lustre Super White Y-4600. Basic quality will be V-863, possibly modified with a flat wall vehicle (ADM 3113-P-30 or Glidden manufactured replacement for V-892) for self-sealing. Increased non-yellowing will be obtained through the use of W-128 Zinc Oxide. More work is required on this formulation than on the system for the colors and dramatone bases but a definite start has been made on a final quality formulation.

Subject: Ready Mixed Exterior Glid-Tone Stain
(NT25014DVI66)

Contributors: J. Davis, J. Southwick

Summary: The Sales Dept. has suggested there may be a need for a few ready mixed colors containing our EGL-64305. This material would be a complete hiding, uniform, thixotropic type stain used primarily for shingles.

Discussion: Preliminary work has been started to formulate four ready mixed colors using our EGL-64305 as a portion of the vehicle. The Other portion of the vehicle will be alkyd. We will formulate to achieve a thixotropic body for minimum drip and splash which will give the vest possible application properties. Experiments on a brown have started and at this point looks promising.

Work will continue and exposure tests will be made when satisfactory formulations are achieved.

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Package Condition	<u>Sears Snowwhite</u>		<u>Dutch Boy</u>		<u>Pitts- burgh</u>		<u>Y-1800</u>		<u>Pratt & Lambert</u>		<u>Ben- jamine Moore</u>		<u>DuPont</u>		<u>Sherwin Williams</u>		<u>Sears Master Mix</u>		<u>Imperial Y-1867</u>
	F-G	Poor	Fair	Good	F-G	Poor	Excell.	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Visc.	95 KU	86 KU	86 KU	87 KU	87 KU	90 KU	83 KU	89 KU	86 KU	88 KU									
Wt./Gallon	13.86	14.32	12.5	13.3	13.42	14.12	13.55	13.78	14.30	14.2									
Color	Much Whiter	Much Whiter	Slightly Yellower		Slightly Whiter	Much Whiter	Much Whiter	Darker Dirtier	Slightly Whiter	Much Whiter									
Grind	OK	OK	OK	OK	OK	Poor	OK	OK	Poor	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Gloss	74	67	78	82	77	78	68	84	47	86									
Dry	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK									
Hiding	V-G 1st.	V-G 3rd.	Good 6th.	F-G 8th.	Good 5th.	V-G 4th.	Good 7th.	Fair 9th.	F-G 10th.	V-G 2nd.									
TiO ₂	lbs. 2.5	1.8	1.6	1.7	1.8	2.0*	1.8	1.4	2.1**	2.4									
Zn O	lbs. 2.3	2.2	2.0	2.6	2.9	2.4	2.6	2.8	1.4	2.6									
Lead	lbs. -	2.6	-	-	-	1.0	-	0.6	-	0.6									
Extended lbs.	3.2	2.1	3.0	3.4	3.3	3.3	3.9	3.6	6.0	3.0									
0.1 lbs.	3.7	4.4	4.0	4.2	3.6	4.0	4.1	3.9	3.6	4.5									
Alkyd lbs.	-	-	-	-	0.5	-	-	-	-	-									
Solvent lbs.	1.3	1.2	1.9	1.4	1.3	1.4	1.2	1.5	1.1	1.2									

* Hiding rates slightly because of poorly dispersed batch.
 ** Hiding rates very low because of poorly dispersed batch.

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