



Dr. H. J. Kiefer

PRODUCT DEVELOPMENT REPORT

COATINGS AND RESINS GROUP LABORATORIES

AUGUST 1964

CONFIDENTIAL
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THE GLIDDEN COMPANY

GLD006785

August, 1964

Trade Sales

We have also made a number of panel and blister house tests of formulations using emulsified vehicles from Spencer Kellog, Archer Daniels, Cargill, and Sherwin-Williams. The best of these products, in the best of their formulations, are being put on field test this year, with a view towards being able to market such a product in fiscal 1966 if we so wish.

E. E. SAVILLE

S. T. BOWELL

Y-1851 vs. Competitive Primers

Comparisons have been made of Glidden's Endurance Basecoat, Y-1851-L, vs. eight major competitive primers. Our preliminary tests show Y-1851-L to be superior to all other primers.

Our initial tests include brushing, dry, water soak, and blister tests. Further tests are being conducted on exterior exposures. These exposures include cedar, white pine, yellow pine, and fir plywood. Blister tests are in progress on the GTMG's and in the deep freeze blister box.

The following table rates each paint tested and summarizes the results.

These tests confirm that Y-1851-L is a superior, easy brushing, non-staining, blister-resistant primer.

Table is shown on page 84.

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Trade Sales

	Package Condition	Viscosity	Grind	Wt/Gal	Hiding as TiO ₂	% Lead Pigment on total Paint	Blister		Water Soak Test	Dry
							Box	Test		
Glidden Basecoat Y-1851-L	Very Good	75 KU	3	11.6	2#	Lead Free	Best-No Blister	Small Blister	Best- Small	5 1/2 hrs.
DuPont's 39	Poor	79 KU	1	12.75	1.4#	Basic Carbonate White Lead 13%	7th-Large Blister	9th-Large Blister	5 1/2 hrs.	5 1/2 hrs.
DuPont's 49	Excellent	67 KU	7	9.80	Very Low	Lead Free	2nd - Few Small Blister	Medium Blister	2nd - Medium	5 1/2 hrs.
SWP 450	Good	77 KU	3	12.55	1.43#	Basic Lead Carbonate 13.7%	8th-Large Blister	5th-Medium Blister	to Large Blister	6 hrs.
SWP A-100 Primer Pitts- burgh 1-201	Poor Good	79 KU 72 KU	2-3 2-3	12.53 11.00	1.75# 1.45#	Basic Lead Carbonate 13% Lead Free	9th-Large Blister 3rd - Few Large Blister	8th-Large Blister 3rd-Medium Blister	8th-Large Blister to Large Blister	6 hrs. 5 1/2 hrs.
Pratt & Lambert 305	Fair	77 KU	1+	12.33	1.45#	Basic Carbonate White Lead 7.8% Basic Silicate White Lead 4.7%	4th - Many Medium Blister	7th - Large Blister	Large Blister	8+ hrs.
Sears Master Mix 2190-4	Fair to Poor	74 KU	0-1	12.52	1.25#	Basic Silicate White Lead 15% 50/50 Basic Car- bonate White Lead/Silicate	5th Large Blister	4th-Medium to Large Blister	6th - Many Medium Blister	7 1/2 hrs.
Dutch Boy 010	Good	86 KU	3-4	13.84	1.42#	White Lead 49.7%	6th - Many Medium Blister	5th Blister	5 hrs.	5 hrs.

GLD006787