

TRADE SALES LABORATORY PROGRESS REPORT
SEPTEMBER 1952

House Paints

White Creosote Paint Y-596-A: Three year exposure tests have been completed on Y-596-A and a modified Y-596-A wherein 4 lbs. of lithopone were replaced with 1 lb. of Titanium Oxide and necessary calcium carbonate to balance the pigment volume. One and two coats were applied on rough wood fencing as used on stock farms in the South. The Y-596-A has checked, cracked and almost completely flaked off. The modified formula while it is showing some checking and cracking still shows a fairly good paint film protecting the wood.

Drying $TiO_2/ZnO/Pb$ Paints vs. TiO_2/ZnO (Lead Free Paints): Two other companies and Glidden prepared both types of paint for drying studies to be made by Lead Industries. We received their samples so we could make an independent check. Our first tests were made in February. Both interior and exterior tests were run. The outdoor temperature was 45° - 50° and dropped to high 30's during the night. Our check-up after 6 months aging were run on a day when it was cloudy and humid in the morning but clearing in the afternoon. Second day was warm and clear. Eagle Picher submitted Fed. Spec'n Paints TT-P-102-A and TT-P-103. Sherwin Williams submitted their #269 and #270. We submitted Q12-19-B (Y-1800 Type) and Q12-19-A (Y-1850 Type). Our paints showed better dry initially and better drying on aging. The paints containing lead pigment generally show the better dry.

		<u>Lead Paints</u>			<u>Lead-Free Paints</u>		
		Q12-19-E	E.P. TT-P-102-A	SW 269	Q12-19A	E.P. TT-P-103	SW 270
Int.	Set-up	10 hrs.	9 hrs.	6 hrs.	10 hrs.	V.slow	10 hrs.
Feb.	Dry	Overnite	Overnite	Overnite	Overnite	Soft 60 hr.	Overnite
6 mo.	Set-up	5 ^{1/2} hrs.	10 ^{1/2} hrs.	7 hrs.	9 hrs.	12 hrs.	9 hrs.
	Dry	13 hrs.	Soft-32 hrs.	13 hrs.	14 hrs.	Soft 32 hrs.	24 hrs.
Ext.	Set-up	12 hrs.	Slow	9 hrs.	12 hrs.	Slow	12 hrs.
Feb.	Dry	36 hrs.	72 hrs.	36 hrs.	36 hrs.	72 hrs.	36 hrs.
6 mo.	Set-up	5 hrs.	9 hrs.	6-1/2 hrs.	5 hrs.	9 hrs.	7 hrs.
	Dry	12 hrs.	Soft 32 hrs.	12 hrs.	12 hrs.	Soft-32 hrs.	12 hrs.

Armstrong Low Lustre Paint

This paint has been on exposure one year in comparison with Crylight Green Y-1828. One and two coats were exposed on both wood and metal. Armstrong's Green shows cracking where only once coat is applied to wood. Also, rusting is shown where one coat is applied over metal. Both greens show fading. Armstrong shows more of a grayish green cast. Y-1828 shows more of a yellowish green cast. Both show some chalking. The greater porosity of a flat color is shown in the cracking on wood and corrosion on steel.

Eastman Kodak

A series of enamels with different vehicles have been made up and submitted to the above account for their evaluation. They are endeavoring to find a wall finish which will not cause fogging of photographic film. The pigmentation in each enamel was composed of W-170-4 lbs. and W-33-1/2 lbs. The different vehicles were V-872, RP-5221 (Soya Epon) Reichold's #1941, Reicholds P-546 and EJSR-159

(Styrenated Alkyd). Each enamel was also made up with varying drier content.

C-6

1. No drier
2. 2 oz. D-75 per gallon
3. 1 oz. D-68 per gallon
4. 1 oz. Active 8 per gallon

The customer has found that lead driers in the wall finishes tend to cause fogging of film being processed in a given area.

White Tire Paint

GL-62397 was formulated for A. & E. to match Gold Eagle Products White Tire Paint. It is a few cents cheaper than our present Y-422 White Tire Paint. We have been endeavoring to buy either a cheaper rubber solution of the M-318 type or to use a milled crepe rubber and thus make our own rubber solution. We have not been able so far to obtain any cheaper materials as the price appears to be uniform throughout the rubber industry.

Proctor & Gamble Co.

Laboratory has formulated materials to meet Specifications for Proctor & Gamble. These specifications cover twenty-two different items. The Glidden Co. has been given the opportunity of supplying their needs for six months. Standard samples and chips were submitted of each item. Preliminary samples have been submitted on some items over a period of two years, but it was only recently that they decided to change their present source of paints.

Demendable Paint Co.

Gray Structural Paint GL-62403 was formulated to take 25% to 30% reduction with Penetral for brushing. Customer requested use of some fish oil also to keep film more elastic. Gloss of 60-65 requested.

H. G. Hayward

mr
10/14/52

GLD006993