

BB COOLIDGE, JR

- 2 -

September 26, 1960

The larger the number, the greater the degree of darkening of the material.

You will note that our 60H is the only material that is better than our standard.

Our 60H, 60N, W560, and W661 are more light stable than Glidden's 96EO standard, as determined in our laboratory.

To get a more complete picture of Glidden's materials, we should have samples of their various grades



VR Horn:d

cc:QFW

0007-SWP-043227

N23154

G F Wyman

Coffeyville #30

Cleveland

September 26, 1960

S. B. Coolidge, Jr.

Light Sensitivity of Lithopone
- The Glidden Company -

We have examined a sample of each of the twelve types of lithopone we produce for light sensitivity. The results were compared to our standard and also Glidden's, which they designate as "96 ND".

Technically, 3 grams of pigment were rubbed to a smooth paste using 4 cc of "Dammar Varnish" in all cases. Chicago no longer makes Dammar varnish so Mr. Adams made up a 50% solids solution of Dammar resin in mineral spirits which we used. Side by side drawdowns were made on an aluminum panel. Three such panels were made, accommodating seven rub-ups each. Each panel contained two of our standard, one of Glidden's standard, and four of the twelve types to be tested. The overall width of the rub-ups per panel was $5\frac{1}{2}$ inches, purposely so designed so that the entire field of drawdowns per panel would lie within direct vertical radiation of ultraviolet light emitting from a 6-inch Uviarc. Each panel was separately immersed in about 1/2-inch of water and subjected for one hour at a distance of 8 inches from the Uviarc.

The results obtained on the standards were not exactly equal to each other, even though the same rub-up was used for each panel, and all panels had identically the same time of exposure under very exacting placement under the Uviarc.

I believe the results of exposure are sufficiently indicative of which grades are more light stable than others.

Giving a value of 1 to our standard, the others can rather well be compared numerically as follows:

O.S.M. Standard	-	1
Glidden "	-	1.7
10N	-	2.25
20N	-	2.60
40N	-	2.5
60N	-	0.5
60J	-	1.7
60H	-	1.5
W 320	-	1.80
W 421	-	2.00
W 461	-	2.00
W 560	-	1.33
W 660	-	2.5
W 661	-	1.4

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