O F Wyman

Coffeyville #30

December 19, 1960

Cleveland

S. B. Coolidge, Jr.

Lithopone - Light Resistance

CONFIDENTIAL

File

The enclosed two panels of lithopone smears show the effects of the addition of cobalt to our standard striking of lithopone.

Samples marked "0, 1, 2, 3, 4, are laboratory calcinations of our plant "struck" lithopone, all at 840° C, but vary in amount of cobalt addition.

Sample "0" - has no cobalt added
Sample "1" - hydrated cobalt sulfate added, equivalent to 0.09% of the weight of lithopone.
Sample "2" - 0.045% added.
Sample "3" - 0.023% "
Sample "4" - 0.011% "

All treatments have been made on the same finished strike, followed by calcination. This could be very readily done in the plant.

The larger amounts of cobalt addition have definitely discolored the product. The smallest addition, 0.011%, has had very little effect on the color, but has still enough cobalt to be sufficiently effective in suppressing the light sensitivity of the product. Even a smaller percentage of cobalt may prove to be effective enough.

At 0.011% the cost of treating would be only $0.14 per ton of lithopone, the cobalt sulfate selling for $0.64 per pound, as indicated in the Oil, Paint, and Drug Reporter.

Mr. Wyman and I feel that we should treat all our lithopone thusly. This would put us in a much better position generally as far as light sensitivity is concerned, and especially good as far as Glidden is concerned.

The cobalt sulfate treatment requires only a small rubber covered tank or drum for solubilizing the salt and possibly a small agitator such as a "Lightnin" mixer.

A. Horn

VR Horn:d
cc: OFW

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