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Coffeyville

January 29, 1954

J. B. Boehner

Fernalith 60J

Du Pont Fernalith HO-J

As you know, we have been trying to make a lithopone comparable to Fernalith HO-J for use by Wardway particularly, but by any other accounts requiring fatty acid treated lithopones. Du Pont indicated to us that their J treatment was 0.5% Weecoline AA or A. We now find that the AA has been discontinued and that Weecoline A is not nearly as good as Weecoline AB to give the proper hydrophobic treatment to the lithopone. Samples made in the laboratory show very definitely from the standpoint of hydrophobic properties that the Weecoline AB treatment is superior to the A treatment, and I would say in some ways superior to Fernalith HO-J. 60J treated with AB shows about the same hydrophobic properties as HO-J but appears to have less haze and higher gloss in cans than HO-J. We believe that it should be a very simple matter to prepare a lithopone comparable to HO-J, and recommend that Weecoline AB be used as the fatty acid.

The Weecoline AB may be ordered from Harwick Standard Chemical Company, 2724 West Lawrence Avenue, Chicago 25, Illinois. Mr. Arno W. Lunke is the technical representative and calls on companies in that territory. We have given him Mr. Stein's name and he probably will call on him, or at least Mr. Stein will hear from him by letter some time in the not too distant future, quoting prices. The Weecoline AB may also be obtained from the E. F. Drew and Co., Inc., with offices in Chicago, Philadelphia, and Boston. The latter, I believe, are the manufacturers, and the Harwick Chemical Company are brokers.

Weecoline AB has a melting point of 24-28. We would recommend that you set up some type of vessel to keep the acid in a molten state, dropping this onto the lithopone, probably in the Rodler, in sufficient quantities to give about 0.5% on the lithopone. This should give sufficient mixing to the lithopone before going to the Raymond mill for final dispersion. You may wish to add this directly to the feeder to the Raymond mill, but our experience shows that some pre-mixing is desired. Mill the material at about R-5 set, as this should be satisfactory in all other respects, based on our test using Fernalith 60J, lot C5756C.

We recommend that you call this lithopone Fernalith 60-J.

Our experience shows that the 60-J can be tested very easily for satisfactory distribution of the fatty acid merely by sprinkling two or three grams of material into a beaker of water. The material should float and give no milky appearance when shaken. A milky appearance shows unsatisfactory coating. Some of the material may settle to the bottom, but doesn't wet.

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unsatisfactory coating. Some of the material may settle to the bottom, but doesn't wet.

We are sending you under separate cover a gallon sample of Pernelith 60-J to be used as a guide. We have not checked the A Factor, but from a consistency standpoint in enamel the Pernelith 60-J is OK as a base.

It is our recommendation, based on conversation with Mr. Squibb, that you make up about 100 bags of Pernelith 60-J and submit a sample to us for pre-testing.

C. H. Adams
C. H. Adams
Mineral Products Laboratory

CHA:ff

cc: SEC, Jr. JVE FFB CED GW

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