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"ASAFA"
Trade Sales

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MEMORANDUM REPORT #M-148

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INVESTIGATION OF ANTI-FLOODING AGENTS IN BRUSHING PRODUCTS

This report will place on record the results of tests wherein DS-17458 "ASAFA" was evaluated against two experimental flooding inhibitors in two brushing products. The two experimental inhibitors were coded PVM-P-95238, and PVM-P-95239 and were based on silicone oils.

The brushing products involved were as follows:

(a) P-69-P-93582 which consisted of 69-861 White Semi Gloss tinted to a light gray with 33-205 Black. This finish flooded white.

(b) 87-682 Quaker Brown, plant batch P-41207. This finish flooded black.

Each inhibitor was tested at concentrations of 0.05%, 0.1%, 0.2%, 0.5%, 1.0% and 2.0% by weight in each of these finishes. Resultant products were investigated from the standpoint of flooding resistance when applied by brushing and flowing, with and without sags.

The results indicated the following:

(a) Flooding was absent in all cases, including the control, where the respective finishes were applied by flowing, except where sags were present. At sag points, flooding was encountered in all cases.

(b) The use of "ASAFA" or either of the two experimental inhibitors made no improvement in the flooding characteristics of either finish, when application was made by brushing. Again flooding was encountered at all sags.

Quite severe "cratering" was encountered in flow outs of 87-682 containing PVM-P-95238, and "cratering" to a lesser

degree in finishes containing PVM-P-95239. This indicates that these inhibitors may not be entirely compatible with the finishes evaluated.

For further details of this investigation refer to Notebook #3247, Pages 134, 135, 156, 157, 158, 159 and to Notebook #3353, Page #88.

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