

INTER-OFFICE LETTER

FROM Cleveland Laboratories OFFICE Development, PW&L
Tech.
TO Cleveland OFFICE Dept. Ctngs. DATE April 26, 1971
MR H. E. Spitzer SUBJECT Exterior House Paints
Lead Elimination
REFER TO LETTER OF DICTATED BY

This is a status report on the subject program.

- I. House Paint White Topcoats - 1000 gal. batch each of SWP Trim & Tinting White A2 W 8 and Gloss White A2 W 4 made in Cleveland factory using Oxide 30P zinc oxide. Batch of P/C Hi-Level B46 W 4 in process. Paints made with zinc oxide have less flow than those made with leaded zinc. Competitive zinc oxides appear no better. Flow control agent (Rheotol) used in Kem-Glo successfully for years now being considered at 1/2 level. Total raw material increase in A2 W 8 approximately 3 1/2 ¢/gal. which includes 2 ¢ for flow control agent. A2 W 4, B46 W 4 and B46 W 14 would be similar. Label analysis on large volume items A2 W 8, A2 W 4 and B46 W 4 distributed. B46 W 14 in process.
- II. Premium Undercoaters - Analysis and formula written for A2 W 5 to replace S/P A2 W 2, and A100 undercoaters A6 W 32 and A6 W 39 with same formula as P/C B46 W 31.
- III. Oil Type Tints - Four colors to be converted to West Coast alkyd type, Chelsea Gray A2 A 20, Sage A2 G 39, Sandpiper A2 A 57 and Peace yellow A2 Y 50. Formulas in existence.
- IV. Alkyd Type Colors - Progress being made in obtaining through dry at lower temperatures. Zirconium dries appears helpful and an attempts is being made to keep cost increases to a minimum. Drying tests indicate darkest colors will require some substitution of shorter Kem-Glo alkyd (39 67 50) for current Tall oil alkyd (39 73 53).
- V. Colors with Lead Pigments - American Heritage Color Kings Yellow A2 Y 56 appears impractical to convert to non-chrome pigments because of excess cost. Berkley Yellow A2 Y 16 similar status. Arbore Green A2 G 12, and Vervas Green A2 G 38 appear hopeful. Leather-stocking Green A2 G 51 in doubt.
- VI. Special Primers - Galvite A57 A 15 - no problems anticipated. Rust Control Primer A57 R 17 requires large amount of zirconium drier (3%) to achieve through dry and prevent wrinkling or lifting when top-

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coated. R.M. cost increases approximately 6¢/gal. Other items
being worked on.

VII. Miscellaneous - No further progress.

L. L. Back, Assistant Director
Cleveland Technical Service

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R.S.Taub/sc

cc: RAM, RLC, LLB, JVL

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