

P.E. Resin
25 Line
87 Line
Release Letter #966
Competitive resin
Investigation WT-53

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MEMORANDUM REPORT #M-57

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"DULUX" METAL PROTECTIVE BLACK

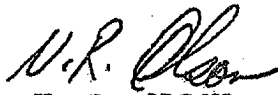
This memorandum will report the results of experiments to eliminate the soya bean oil "DULUX" resin from 25-051, "DULUX" Metal Protective Black, and 87-001 Trim & Trellis Black, which is supplied by 25-051.

The vehicle of 25-051 is a 1/1 blend (on a solids basis) of RC-193, 62% soya bean oil "DULUX" resin/RC-114, 50% soya bean oil "DULUX" resin. When supplies of soya bean oil became critical, the use of competitive resin, Beckosol P-296-G and Beckosol P-7, were investigated. Beckosol P-296-G as the entire vehicle provided a black finish which dried slightly slower than standard 25-051, was slightly softer but satisfactory in other respects. Replacing the RC-193 portion by Beckosol P-296-G and RC-114 by Beckosol P-7 appeared to provide a product equal in all respects to standard 25-051. However, after completing preliminary studies of these competitive resins, Wilmington Management decided that these resins should be reserved for whites only.

A detailed study of PRC-P-36983, 63% linseed oil PE "DULUX" resin, was conducted. This resin, as the entire vehicle, dries slightly faster to the tack free stage than the standard 25-051, but had poorer through dry. A ladder of up to 6% VC-1000 on the solid vehicle showed that approximately 1.7% would increase through dry to equal that of 25-051 and such a formula still dries slightly faster than 25-051. In addition, this type formula, coded 25-683, had equal gloss, slightly superior wrinkling resistance, brushed slightly easier and had slightly better flow than 25-051, but adequate sagging resistance. Stability tests indicated that it would behave like 25-051. This new product, 25-683, was also set up to supply the new Trim & Trellis Black, 87-683. These products are discussed in Release Letter No. 966.

For details, refer to Notebook 3006, pages 78, 79, 86, 87 and Notebook 3056, pages 6 and 7. The products discussed above are exposed in Exposure Study Series No. 9095.

PHILADELPHIA LABORATORY


V. R. OLSON

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P.S. Following approval of Release Letter No. 966, the Sales Department requested that the 25-051 and the 87-001 codes be retained, since many of the Sales Bulletins contain these codes. Release Letter No. 966-A was, therefore, prepared to advise that 25-051 had been revised to the 25-683 composition and 87-001 was reinstated to be supplied by 25-051. 25-683 and 87-683 were obsoleted.

V. R. O.