

Cross Reference:
Trade Sales
Oil Colors

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J-10'53

Philadelphia Laboratory
October 24, 1946

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MEMORANDUM REPORT #M-76 - SUPPLEMENT

REFERENCE COPY

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ANTI-SKINNING AGENTS IN TRADE SALES OIL COLORS

Re: Memorandum Report #M-76 by G.H. Wescott dated 9/19/46

The reference report pointed out that tough, heavy skins developed on subject oil colors in seven weeks, and that the incorporation of some anti-skinning agent might offer a satisfactory solution to this problem. This report will place on record further attempts to use anti-skinning agents, namely, VH-5259, in Trade Sales Oil Colors.

Three batches of 501-419, Oil Color Burnt Umber were prepared and contained 0, 0.1, and 0.2 lb./gal. of VH-5259 respectively. Three batches of 501-602 French Ochre in oil were also prepared, and contained 0, 0.25 and 0.50 lb./gal. of VH-5259 respectively. Representative samples of each batch of oil color were placed in half-pint cans for observance of shelf stability. Each series of cans included a tightly sealed can, a loosely-lidded can, and a can with a nail hole punched in the lid. The results of these shelf stability tests are shown in the following table:

<u>Code</u>	<u>Experimental Code</u>	<u>VH-5259 lb./gal.</u>	<u>Sealed Can</u>	<u>Loosely lidded can</u>	<u>Can with nail hole in lid</u>
501-419*	P-501-P-76712	0	light skin	skinned	skinned
"	P-76716	0.1	O.K.	skinned	skinned
"	P-76713	0.2	skinned	skinned	skinned
501-602**	P-501-P-76719	0	one-half skinned	skinned	skinned
"	P-76724	0.25	O.K.	O.K.	O.K.
"	P-76720	0.50	O.K.	O.K.	O.K.

*Results for 501-419 are reported as of the end of a one week period.

**Results for 501-602 are reported as of the end of a three week period.

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In view of the facts that the 501-419 oil color Burnt Umber, which contained 0.2 lbs. per gallon of VH-5259 skinned over in only one week, and that the 501-602 French Ochre in oil which contained approximately the same amount of inhibitor, namely, 0.25 lbs. per gallon of VH-5259, failed to skin over in three weeks, it is felt that the inhibition of skinning in oil colors will prove to be an individual problem in the case of each color.

It is believed that production of a satisfactory oil color which would not skin would be to our advantage. Should the Sales Department decide that a study of the oil color line to produce a product which would not skin would be desirable, a laboratory work request will be necessary to cover any future work. Data taken during this investigation may be found in notebook #3161, covered on pages 11, 12, 13, 14, 17, 18 and 39.

PHILADELPHIA LABORATORY

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