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NEWARK PLANT
PIGMENT COLOR RESEARCH REPORT

PIGMENT SCARLET LAKE RE-559-D:
SEMI-WORKS TREATMENT WITH RESINOUS OIL.

Period Covered: March 1946.

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NEWARK PLANT

PIGMENT COLOR RESEARCH REPORT

Final Report

Title: PIGMENT SCARLET LAKE RE-559-D: SEMI-WORKS TREATMENT
WITH RESINOUS OIL.

Period Covered: March 1946.

SUBMITTED BY: M. G. Taber

DATE SUBMITTED: 7/2/46

APPROVED BY: J. O. Morrison

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J. O. Morrison
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INTRODUCTION

Pigment Scarlet Lake, RE-559-D, a whiting extension containing double the toner content of RE-389-D (a barytes lake), was originally developed specifically for evaluation by one customer, Congoleum Nairn, who subsequently rejected it as being no better than RE-389-D in dispersion; both products were unsatisfactory, giving "spottiness" in addition to weakness under the conditions of the customer's test.

Another linoleum lake, RM-545-D, has subsequently been specially treated, to give good dispersion in linoleum, by partial replacement of the whiting extender with an emulsion of resinous oil and naphthenic acid.

It was suggested that the resinous oil treatment be tried with RE-559-D, K-2274.

SUMMARY AND CONCLUSIONS

Three semi-works batches of RE-559-D were made, using plant RL-221-D press cake. They were treated as follows:

Lot		% RL-221-D	% Whiting	% Resinous Oil
8672	Control	50	50	0
8673	Treated	50	45	5
8674	Treated	45.5	45.5	9

In linoleum tints both treated batches were a trace stronger than RE-389-D, the 25% barytes lake, used in double amount. At the full number of mill passes (10X) the untreated batch was only slightly weaker but at only 6 passes it was markedly inferior to the treated material. Lot 8674 was very slightly weaker than lot 8673 but would be somewhat cheaper.

Full shade linoleum grinds showed no difference among batches; all were vs blue and dull versus RE-389-D.

Strength by the Congoleum Nairn method showed only minor differences but the treated batches were a little stronger than the control.

Inasmuch as the customer is now using the soap fast naphthanil lake RM-545-D rather than Pigment Scarlet, no further study of RE-559-D is contemplated at present.

EXPERIMENTAL DETAILS:

	<u>Our Method</u>		<u>Linoleum Tests</u>	
	<u>6X</u>		<u>10X</u>	<u>Congoleum Nairn</u>
Lot 8672 vs 2X RE-389D	vs weak		vs weak	vs wk and yellow
8673 vs "	strong		vs strong	eq. strength, vs yellow
8674 vs "	a strong		vs strong	eq. strength, vs yellow
8673 vs 8672	strong		vs strong	vs strong, vs blue
8674 vs 8672	strong		vs strong	vs strong, vs blue
8674 vs 8673	vs weak		vs weak	vs weak

REFERENCES DSN 46-12
SW lots 8672, 8673 and 8674.