

LEAD INDUSTRIES ASSOCIATION

480 LEUNGTON AVENUE

NEW YORK 17, N. Y.

Pigments and Chemicals Division

SUBJECT TO REVISION

RED LEAD TECHNICAL COMMITTEE: MEETING MINUTES

New York, N. Y.

July 15, 1955

A meeting of the Red Lead Technical Committee was held in the offices of the Lead Industries Association on Friday, July 15, 1955.

PRESENT

L. L. Carrick, Chairman
O. F. Shobe
E. P. Bates

REPRESENTING

Lead Industries Association
The Glidden Company
National Lead Company

G. E. Cherry Jr. Lead Industries Association
Secretary to the Committee

The meeting was called to order at 10:00 A.M. with Dr. Carrick presiding. The minutes of the previous meeting of April 1, 1955 were approved as circulated.

CONSIDERATION OF EXHIBIT AT MEETING OF ALLIED RAILWAY SUPPLY ASSOCIATION

Members of the committee discussed the possibility of a Division exhibit at the September meeting of the Allied Railway Supply Association and decided that the show did not seem a promising place for a red lead exhibit.

NEW TECHNICAL LETTERS

The secretary reported difficulty in securing case histories for proposed Technical Letter No. 10. The committee agreed that the process was likely to be a slow one. In view of this, they decided that proposed Technical Letter No. 11, on surface pretreatment, should be prepared first. (The respective Technical Letter numbers, therefore will be exchanged.) The letter will cover surface pretreatment of steel and galvanized surfaces with references to red lead worked into the text. The secretary was instructed to prepare a rough draft to be circulated to the committee members for comment. A working draft is then to be prepared for final revision by the committee. A meeting for this purpose will be scheduled for October.



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L.I.A. PROJECT NO. 23
SYNTHETIC-VEHICLE PRIMERS

The committee selected the following paints to be tested in L.I.A. Project No. 23, Synthetic-Vehicle Primers.

1. L.I.A. 501 - Bu Ships Paint Formula No. 116
2. L.I.A. 502 - Bu Ships Paint Formula No. 116 in which the alkyl resin solution (Fed. Spec. TT-R-266, Type I, Class 1) is modified by substituting isophthalic acid for phthalic anhydride.
3. L.I.A. 503 - L.I.A. 502 in which the oil content of the nonvolatile resin is increased 10%.
4. L.I.A. 504 - Fed. Spec. TT-R-36a, Type III
5. L.I.A. 505 - Fed. Spec. TT-R-36a, Type III in which the alkyl resin solution (Fed. Spec. TT-R-266, Type III) is modified by substituting isophthalic acid for phthalic anhydride.
6. L.I.A. 506 - L.I.A. 505 in which the oil content of the non-volatile resin is increased 10%.
7. L.I.A. 507 - Fed. Spec. TT-R-36a Type IV in which the phenolic varnish is made (to the same oil length as in the spec.) by preparing a cold cut BM 9400 bodied tung oil vehicle. TT-R-36a Type IV will be used for control.

NOTE: In the following six paints each vehicle, as indicated, will be pigmented with red lead at 36.9 P.V. Curing speeds, hardness and brittleness developed with time, will be determined before selecting test paints.

8. L.I.A. 508 - Epon-Amine cured vehicle. 1% diethylene-triamine added to Epon 1001.
9. L.I.A. 509 - Epon-Amine cured vehicle. 2% diethylene-triamine added to Epon 1001.
10. L.I.A. 510 - Epon-Amine cured vehicle. 3% diethylene-triamine added to Epon 1001.
11. L.I.A. 511 - Epon-Amine cured vehicle. 4% diethylene-triamine added to Epon 1001.
12. L.I.A. 512 - Epon-Amine cured vehicle. 5% diethylene-triamine added to Epon 1001.
13. L.I.A. 513 - Epon-Amine cured vehicle. 6% diethylene-triamine added to Epon 1001.
14. L.I.A. 514 - Red Lead Formulation in which Shell Epon ester Vehicle LE-43 is made with Epon 1001.
15. L.I.A. 515 - Red Lead paint using Shell Chemical Co.'s Epon 1001 to which is added Polyamide (1 = 1 - Epon 1001 & Polyamide) according to General Mills suggestions.

NOTE: Paints 516-519 inclusive are tentative pending successful manufacture of the vehicles by Dr. Carrick. They will be pigmented with red lead at 36.9 P.V.

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16. L.I.A. 516 (tentative) - A paint whose vehicle is a castor oil alkyl with phthalic anhydride.
17. L.I.A. 517 (tentative) - A paint whose vehicle is a castor oil alkyl with isophthalic anhydride.
18. L.I.A. 518 (tentative) - L.I.A. 516, the vehicle of which contains para-isobutyl-benzoic acid.
19. L.I.A. 519 (tentative) - L.I.A. 517, the vehicle of which contains para-isobutyl-benzoic acid.
20. L.I.A. 520 - Shell Chemical Co.'s red lead formula suggestion using Epon Ester L-8.
21. L.I.A. 521 - Shell Chemical Co.'s red lead formula suggestion using Epon Ester S-4.
22. L.I.A. 522 - Shell Chemical Co.'s red lead formula suggestion using Epon Ester S-6.
23. L.I.A. 523 - Shell Chemical Co.'s red lead formula suggestion using Epon Ester T-8.

Paints are to be exposed at Perth Laboy, W. J. on duplicate rusty angle irons and single sandblasted angles. All angles will receive a topcoat of a gray enamel formulated in accordance with Fed. Spec. TT-E-489, Class A. One and two coats of primer with and without a topcoat will be exposed. A film thickness of 1.5 mils dry per coat will be used.

Paints 501-507 are to be made up by the Glidden Co. Paints 508-515 and 516-523 are to be made up by the National Lead Co.

Paints 516-519 are to be made up by Dr. Carrick.

NEXT MEETING DATE

The next meeting of the technical committee was scheduled for sometime in October.

The meeting adjourned at 4:30 P.M.

Charles E. Cherry Jr.
Charles E. Cherry Jr.
Secretary to the Committee