

LEAD INDUSTRIES ASSOCIATION

882 MADISON AVENUE

NEW YORK 17, N. Y.

SUBJECT TO REVISION

LEAD PIGMENTS TECHNICAL COMMITTEE MEETING MINUTES

New York, N.Y.

October 3, 1960

A meeting of the Lead Pigments Technical Committee of the Lead Industries Association was held in the office of the Association on October 3, 1960.

PRESENT

L. L. Carrick, Chairman
M. E. Kinore
Paul Whitford
E. H. Sutow
R. P. Bates
E. K. Zimmerman

REPRESENTING

Lead Industries Association
The Dunbar Mill Co.
The Eagle-Picher Co.
Barnard Lead Products, Inc.
National Lead Co.
National Lead Co.

Robert L. Klagfeld, Secretary-Treasurer
David M. Bortina, Secretary to the Committee

The meeting was called to order at 9:30 A.M.

The minutes of the previous meeting of September 30, 1959 were approved.

CONSIDERATION OF 1961 ACTIVITIES

Test Projects: No test projects were recommended. However, it was the recommendation of the committee that a market study be made on the use of yellow traffic marking paint by the State Highway Departments. The method of procedure suggested by the committee was as follows:

1. A survey to be made by letter to the Safety Engineer of all State Highway Departments and Toll Roads requesting their experiences, if any, with yellow traffic marking paint for center and edge marking.
2. Personal discussions with several State Highway Departments and a Toll Road such as the New York State Thruway Commission.
3. Finally, after the survey and personal discussions have been completed, approach the Bureau of Public Roads in Washington.

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The secretary stated that he had paint formulations for yellow traffic marking paint from several of the State Highway Departments, and requested the committee's suggestions as to which of these should be recommended.

The committee thereupon requested the secretary to send these formulations to the committee for their comments and suggestions as to which of the formulations should be recommended by the Association in the event such recommendation is requested by the various agencies.

Advertising: The committee reviewed the 1960 advertising approach which was based on the promotion of lead pigments. They agreed that this approach did not appear to be as effective as the case history type of advertising that was used in previous years.

A motion was thereupon made, seconded and unanimously approved that space advertising be temporarily discontinued.

Handbook: The committee then discussed the need and feasibility of a technical manual on lead pigments in paints. They agreed that the need for such a manual exists and agreed to cooperate with the Association in the preparation of such a manual.

A motion was thereupon made, seconded and unanimously approved that the Association be authorized to prepare a technical manual on lead pigments for paints.

Lead Pigments Technical Letters: The committee agreed that there would be insufficient data available from existing test projects to warrant the publication of Lead Pigments Technical Letters during 1961. It was further agreed that those test projects completed in 1960 were of insufficient interest to warrant their use as a technical letter.

Research Recommendations: The committee then discussed the possibility of research projects that could be recommended to the Expanded Research Program of the Association. The committee was in general agreement that a study of the following subject be recommended to the Expanded Research Program:

"The Mechanism of the Anticorrosion Properties of Lead Compounds."

Fellowships: The committee also endorsed the idea of fellowships in universities and recommended that monies be set aside for such use in the 1961 Expanded Research Program's budget.

The schools recommended by this committee as qualified to undertake such fellowships in paint technology were as follows:

Brooklyn Polytechnic Institute
Case Institute
Lehigh University
Missouri School of Mines

Rutgers University
University of Florida, Gainesville
University of Louisville
University of North Dakota

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Yellow Traffic Marking Paint: In view of the proposed promotional activity in the field of yellow traffic marking paint, the committee felt that consideration should be given some time in the future to the development of a yellow traffic marking paint with improved durability, increased night visibility, and daylight reflectance. The committee requested Dr. Carrick to discuss this problem with Mr. A. J. Fernandez, Research Department, Michigan State Highway Department, Lansing, Mich.

LEAD PIGMENTS TECHNICAL LETTER NO. 15

The secretary stated that publication of Lead Pigments Technical Letter No. 15, a compilation of all previous technical letters, had previously been approved. However, the question of format remained, the formulations to be carried forward, and the assignment of permanent numbers to the formulations that are to be included. The secretary reported that he, with the assistance of Mr. Bates, had reviewed all previous technical letters, deleting duplicate formulations as well as those of minor importance and arrived at a format that might be acceptable to the committee.

The committee then reviewed the tentative suggestions and requested the secretary to prepare a rough draft of the proposed technical letter for their review and comments.

With respect to assigning permanent numbers to the formulations to be included in Lead Pigments Technical Letter No. 15, the committee recommended the following numbering system:

<u>TYPE OF VEHICLE</u>	<u>FORMULATION NUMBER</u>
Oil	L.I.A. 100 to 199
Oil-resin fortified	L.I.A. 200 to 299
Alkyd	L.I.A. 300 to 399
Phenolic	L.I.A. 400 to 499
Vinyl	L.I.A. 500 to 599
Miscellaneous	L.I.A. 600

REVIEW OF L.I.A. TEST PROJECTS

The committee reviewed the status of the various test projects and commented as follows:

L.I.A. Project No. 23 - The secretary reported that three paints, Nos. 511, 512 and 515, are still on exposure at Sayville, all others having been discontinued. Also, the last inspection of the Joplin phase was made in June, 1959.

Mr. Whitford will check results at Joplin and send resume to the secretary for transmission to the committee.

L.I.A. Projects Nos. 22 and 24 - The secretary reported that these tests have been completed and that final results had been circulated to the committee.

The committee agreed that neither of these projects offered any conclusions of sufficient interest for use in a paper or a technical letter.

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L.I.A. Project No. 25 - The secretary reported that he had circulated a first draft of a termination report of this project on February 5, 1960 and that only minor changes were suggested by the committee. The secretary then requested the committee's advice as to distribution of the report.

After some discussion, the committee agreed that it would be unnecessary to distribute the entire termination report and that a summary be prepared by the secretary. The secretary was further instructed that the summary should not include any direct reference to "Bastolcum," but that it should state that the test work of L.I.A. substantiated the work done by various member companies.

L.I.A. Project No. 26 - The secretary was requested to provide members of the committee with the location of the various highway department test sites on which paints in this project were placed on exposure.

L.I.A. Project No. 26, Supplemental - The secretary reported that he had received word from Clem Lominska and Howard Hughes that the test panels for this project were placed on exposure at New Orleans, La. on October 2, 1959, at Joplin, Mo. on October 26, 1959, and at Bayville, L.I. on January 6, 1960.

L.I.A. Project No. 27 - Panels were placed on exposure March 25, 1959 and no inspections of the panels have been reported.

L.I.A. Project No. 28 - This project was to test one-coat machinery enamels and the secretary reported that a number of wet samples had been received from highway departments and machinery manufacturers.

It was the decision of the committee that this project be dropped.

L.I.A. Project No. 29 - A summary of this project is attached as Exhibit "A."

PRIMERS FOR WATER SOLUBLE HOUSE PAINTS

The committee then discussed the need for primers of the oil type for water soluble house paints and all agreed that their use is definitely indicated with the latex paints now on the market. The reasons given were the excessive permeability of latex paints to moisture causing wood failure, the decorative features being affected by wood staining and the lack of wetting and adhesion of chalk face surfaces through peeling.

There being no further business, the meeting adjourned at 4:30 P.M.



David M. Borcia
Secretary, Lead Pigments
Technical Committee

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Exhibit "A"
October 5, 1960

L.I.A. PROJECT NO. 22

Purpose: To compare L.I.A. 9-2 in several color combinations
for adhesion to galvanized iron and color retention.

Test Site: Bayville, L.I., N.Y.

Test Specimens: Untreated galvanized sheet (mineral spirits washed).

Control: L.I.A. 9-2.

Paints to be
Tested: See attached.

Top Coat: L.I.A. 2615 (aluminum).

Painting
Procedure: One and two coats of each paint with and without a
top coat, 1-1/2 mils dry coat of primer. Aluminum
at normal spreading.

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L.I.A. PROJECT NO. 89

Exhibit "A"
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PAINT COMPOSITIONS

L.I.A. Paint No. (a)	8900*	8901	8902	8903	8904	8905	8906	8907	8908	8909
National Paint No.	9700	9707	9708	9709	9710	9711	9712	9713	9717	9718
Panel No. A-1-b	9822	9823	9824	9825	9826	9827	9828	9829	9830	9831
Pigment, per cent										
Red lead (975)	29.94	29.94	29.92	30.19					25.13	
Basic lead silico chromate					16.40	16.11	16.00	16.97		16.41
Iron oxide 3185	14.97				17.86					
Black iron oxide (Meylan 247)		19.28				19.28				
C.P. chrome oxide green			16.71				19.86			
C.P. chrome yellow (Y 434)									1.83	
Box orange (X 8005)										0.93
Titanium dioxide (Rutile, non-chalking)				14.24				17.02	25.89	16.86
Aluminum Stearate	0.49	0.49	0.49	0.90	0.99	0.98	0.98	0.60	0.97	0.99
Line dust, No. 82	34.60	53.37	53.48	55.07	65.15	64.03	63.56	65.81	46.78	65.21
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Vehicle, per cent										
Alkyd resin solution, Federal Specification TT-S-266, Type I, Class A)	65.08								65.53	65.08
Mineral spirits	34.14								34.01	34.14
Lead naphthenate (245)	0.97								0.31	0.97
Cobalt octoate (64)	0.21								0.15	0.21
TOTAL	100.00								100.00	100.00
Pigment	69.63	69.94	70.07	69.45	65.77	66.16	66.32	65.54	68.17	65.90
Vehicle	30.37	30.06	29.93	30.55	34.23	33.84	33.68	34.46	31.83	34.10
TV	44.00	44.00	44.00	44.00	44.00	43.90	44.00	44.00	44.30	44.80
Wt./Vol.	18.70	18.86	18.92	18.54	16.55	16.75	16.82	16.44	17.71	16.48

(a) These numbers should be considered as temporary until the new method of numbering L.I.A. paints can be put into effect.

• L.I.A. 9-8