

LEAD INDUSTRIES ASSOCIATION

480 LEONSTON AVENUE
NEW YORK 17, N. Y.

Pigments and Chemicals Division

SUBJECT TO REVISION

RED LEAD TECHNICAL COMMITTEE MEETING MINUTES

Sayville, N. Y.

April 1 and 2, 1954

A meeting of the Red Lead Technical Committee was held at Sayville, N. Y., on April 1 and 2, 1954. The following attended:

<u>Name</u>	<u>Representing</u>
Mr. E. Carlack	The Eagle-Picher Company
Mr. P. Whitford	The Eagle-Picher Company
Mr. O. F. Shobe	The Glidden Company
Mr. C. J. Vander Valk	Hammond Lead Products, Inc.
Mr. R. F. Bates	National Lead Company
Mr. O. Diehlman (first day only)	National Lead Company
Mr. C. Lominska	National Lead Company
Mr. H. Whitson (first day only)	National Lead Company

D. L. L. Carrick, Director of Red Lead Research, Chairman
Mr. C. E. Cherry Jr., Lead Industries Association, Secretary to the Committee

The meeting commenced at 11:00 A.M. on April 1, 1954. Minutes of the previous committee meeting of January 27, 1954 were approved as circulated.

INSPECTION OF PROJECTS

Actual inspection of panels was preceded and directed by discussion of the preliminary report sent to committee members prior to the meeting.

Project No. 19 (red lead and other metal protective paints on new and partially rusted galvanized steel and aluminum clad steel.)

As a result of this inspection the committee selected for a new Technical Letter five red lead formulations suitable for the painting of rusted, weathered, or treated new, galvanized steel. These formulations are outlined in the next section of the minutes.

Project No. 20 (vinyl metal surface conditioners and anti-corrosive paints pigmented with red lead, zinc chromate and various other pigment materials exposed at tide level and totally immersed in sea water.)

Severe blistering of red lead paints in the total immersion tests, opposed to excellent performance of almost all other pigments and contrary to all past experience with red lead indicated to the committee some deficiency in either the particular batch of red lead used, or in some other ingredient, or in preparation of the paints. Investigation was initiated immediately. Meanwhile, the committee directed that a new set of panels be prepared and exposed. Mr. Shobe agreed to prepare the paints as in the original tests.



Meeting Minutes

-2-

April 1 and 2, 1954

Project No. 14 (comprehensive atmospheric project comprising ninety-five metal protective primers exposed in one and two coat systems with and without aluminum and white finish coats.)

Only a cursory inspection was made of this project. Fuller evaluation will await a complete inspection report on the project including panels exposed elsewhere than Sayville. In this connection Mr. Garlock will inspect the panels exposed at Joplin, Mo. and also will arrange for inspection of panels at New Orleans. Mr. Shobe agreed to arrange for inspection of the panels at Cleveland. The complete report of the project will be prepared in the offices of the Association and forwarded to the committee members.

NEW TECHNICAL LETTER

On the basis of results of Project No. 19, the committee decided to prepare a new Red Lead Technical Letter (No. 9) containing the following five formulations suitable for use on rusted, weathered, or treated new, galvanized steel:

For one coat applications:

<u>L.I.A. 361</u>	<u>Pigment 80%</u>	<u>Vehicle 20%</u>
PV = 42	Red Lead (97%) 30.0%	Raw Linseed Oil 49.0%
Wt./Gal. = 17.2 lbs.	Iron Oxide 15.0	Glyptal 2466 34.3
(without	Aluminum Stearate 0.5	Mineral Spirits 15.6
zinc dust)	Zinc Dust 54.5	Lead Naphthenate (24%) 1.3
		Cobalt Octoate (6%)

<u>L.I.A. 362</u>	<u>Pigment 69.6%</u>	<u>Vehicle 30.4%</u>
PV = 42	Red Lead 97% 30.0%	Glyptal 2466 64.9%
Wt./Gal. = 13.2 lbs.	Iron Oxide 15.0	Mineral Spirits 34.2
(without	Aluminum Stearate 0.5	Lead Naphthenate (24%) 0.8
zinc dust)	Zinc Dust 54.5	Cobalt Octoate (6%)

For one coat application where a green tint is desired:

<u>L.I.A. 378</u>	<u>Pigment 77.5%</u>	<u>Vehicle 22.5%</u>
PV = 40.	Red Lead 97% 40.0%	Raw Linseed Oil 47.8%
Wt./Gal. = 18.2 lbs.	Chromium Oxide 19.5	Glyptal 2466 34.2
(without	Aluminum Stearate 0.5	Mineral Spirits 17.2
zinc dust)	Zinc Dust 40.0	Lead Naphthenate (24%) 0.8
		Cobalt Octoate (6%)

For application where a top coat is to be used:

<u>L.I.A. 367</u>	<u>Pigment 79.7%</u>	<u>Vehicle 20.3%</u>
PV = 42	Red Lead 97% 50.0%	Raw Linseed Oil 44.50%
Wt./Gal. = 18.5 lbs.	Aluminum Stearate 0.5	Glyptal 2466 32.7%
(without	Zinc Dust 49.5	Mineral Spirits 19.50
zinc dust)		Lead Naphthenate (24%) 1.2%
		Cobalt Octoate (6%)

Meeting Minutes

-3-

April 1 and 2, 1954

L.I.A. 368Pigment 71.5Vehicle 29.54

P7 = 42	Red Lead 97%	50.0%	Olyptal 2466	67.70%
Wt./Gal. = 14.9 lbs.	Aluminum Stearate	0.5	Mineral Spirits	31.42
(without	Zinc Dust	49.5	Lead Naphthenate (24%)	
sine dust)			Cobalt Octoate (6%)	0.88

The secretary was directed to prepare a draft of the letter immediately.

CONSIDERATION OF EXHIBIT BY DIVISION AT 1954 PAINT INDUSTRIES SHOW

After discussion the committee decided against exhibiting at the 1954 Paint Industries Show in Chicago. Instead, the committee members agreed it would be more profitable for the division to exhibit elsewhere. Three shows in particular were suggested, those of the National Association of Corrosion Engineers, the American Petroleum Institute, and the railroad supply association (exact name unknown). The secretary was directed to obtain specific information on these shows for further consideration by the committee.

TECHNICAL LETTER NO. 4

Since formulations in Technical Letter No. 4 have either been superseded by or are repeated in subsequent Technical Letters, the committee voted to drop that letter from any literature listing of the division.

PROJECT IN EVALUATION OF FLAKED LEAD

Mr. Garlock reported to the committee, concerning the test initiated by the committee at the meeting of January 27, 1954, that when flaked lead was substituted for sine dust in L.I.A. Formula 6-27, the resulting paint had too heavy a consistency for use. The committee agreed that this formulation should be dropped from the test and directed the secretary to so advise the Metalad Products Corporation, correspondence with which had caused the test's initiation.

NEXT MEETING DATE

The committee tentatively set June 14, 1954, in New York, for its next meeting.

There being no further business, the committee adjourned at 11:30 A.M., April 2.

Charles E. Cherry Jr.
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Secretary to the Committee