

LIA22294

LEAD INDUSTRIES ASSOCIATION

60 EAST 42ND STREET

NEW YORK 17, N. Y.

September 29, 1958

SUBJECT: RED LEAD TECHNICAL
LETTER NO. 13

To Members of the Lead Industries Associations:

Enclosed is a copy of Red Lead Technical Letter No. 13,
"L.I.A. Formula 9-2, A Single Red Lead Primer for Rusted, Weathered
or New Galvanized Steel." Approximately 11,000 copies are being
distributed to individuals in the following groups:

Highway Engineers
Construction Companies
Paint Production Clubs
National Paint, Varnish and Lacquer Association
National Association of Corrosion Engineers
Water and Sewage Works
Railroads
Shipyards
Miscellaneous

Additional copies of Red Lead Technical Letter No. 13 are
available for the use of members upon request.

Sincerely yours,

Robert L. Ziegfeld

Secretary



L. I. A. Formula 9-2
A SINGLE RED LEAD PRIMER
for
RUSTED, WEATHERED OR NEW
GALVANIZED STEEL

	PAGE
FOREWORD	2
MANUFACTURERS OF RED LEAD	2
L.I.A. FORMULA 9-2	3

Red Lead Technical Committee
LEAD INDUSTRIES ASSOCIATION
60 EAST 42ND STREET
NEW YORK 17, N. Y.

Foreword

AN outstanding red lead-zinc dust-iron oxide primer for galvanized steel—a single primer for all galvanized surfaces whether rusted, weathered or treated new—has been developed as a result of field exposures and research work conducted by the Red Lead Technical Committee of the Lead Industries Association.

Throughout a full six years of field investigations, L.I.A. Formula 9-2, described in this Technical Letter, has performed exceptionally well, surpassing all of the other red lead-containing formulations previously recommended for this use by the Committee and in addition, out-performing lead-free primers generally recommended for galvanized surfaces.

L.I.A. Formula 9-2 primer is ideally suited for maintenance painting of galvanized surfaces particularly where the condition of the surface area to be painted may vary from rusty to weathered to new. At last a single primer is available which will effectively protect galvanized surfaces against further deterioration regardless of their condition. It is effective as a primer in one or more coats either exposed to the weather or covered with a suitable finish coat.

To insure good adhesion and to attain the most satisfactory protection with this primer on rusted galvanized surfaces, the corroded areas should be wire brushed to remove rust scale followed by washing with clean mineral spirits. On new galvanized steel, the surface should be allowed to weather for 3 to 6 months or, if time does not permit, the surface should be chemically pretreated.

The Technical Committee has examined a number of commonly used pretreatment procedures and found, for example, that treatments with copper sulphate, acetic acid, or hydrochloric acid are ineffective. However, phosphate type treatments effectively etch the zinc surface and greatly improve the adhesion of the paint film. Proprietary products of this type are generally available.

Inquiries on this formulation or on specific painting problems are welcome and should be addressed to the Lead Industries Association or to the designated individuals in the cooperating companies listed below:

THE BUNKER HILL COMPANY 648 Market Street, San Francisco 4, California
1224 16th Street, Oakland 7, California
2181 Yates Avenue, Los Angeles 22, California
2798 16th Avenue Southwest, Seattle 4, Washington
For technical information write Mr. E. Elmore, Chemical Products Division,
1224 16th Street, Oakland 7, California.

THE EAGLE-PICHER COMPANY American Building, Cincinnati 1, Ohio
For technical information write Paul Whitford at above address.
Chicago, Cleveland, Dallas 28, Detroit, Kansas City 6, (Mo.), New Orleans,
New York 17, Philadelphia 4, Pittsburgh 22.

THE GLIDDEN COMPANY 1296 Union Commerce Building, Cleveland 14, Ohio
For technical information write Austin Long at above address.
Atlanta, Boston, Minneapolis, New York, South Hackensack (N. J.), San
Francisco; Adams & Eling Division, Chicago; American Paint Works Divi-
sion, New Orleans; Campbell Paint & Varnish Division, St. Louis; Nobles
Paint & Varnish Division, Chicago; A. Wilhelm Company Division, Reading;
Canadian Division, Toronto; Chemical, Pigments & Metals Division, Balti-
more, Collinsville (Ill.), Hammond, (Ind.); Euston Lead Company, Scranton.

HAMMOND LEAD PRODUCTS, INC. 5231 Holmes Avenue, Hammond, Ind.
428 Lexington Avenue, New York 17, N. Y.
1442 Oliver Building, Pittsburgh 22, Pa.
For technical information write J. G. Johnstone at Hammond, Ind.

NATIONAL LEAD COMPANY 111 Broadway, New York 4, N. Y.
For technical information write R. P. Bates at above address.
Atlanta, Buffalo 8, Chicago 8, Cincinnati 8, Cleveland 13, Dallas 2, Philadel-
phia 23, Pittsburgh 12, St. Louis 1, San Francisco 10, Boston 6, Charleston
25 (W. Va.), Seattle 4, Los Angeles 22.

WESTERN LEAD PRODUCTS COMPANY 4520 E. Pacific Way, Los Angeles 22, California
1238 Fourth Street, Berkeley 2, California
For technical information write Thomas E. Mohr at Los Angeles, California

L. I. A. Formula 9-2
A SINGLE RED LEAD PRIMER
 for
RUSTED, WEATHERED OR NEW
GALVANIZED STEEL

	<u>Composition</u>	<u>Percent</u>	<u>Pounds</u>	<u>Gallons</u>
PIGMENT:	Red Lead, 97% Grade	30.2	387.0	5.2
	Siliceous Iron Oxide, 85% Fe ₂ O ₃	15.0	193.0	5.2
	Aluminum Stearate	0.5	6.5	0.8
	*Zinc Dust (Federal Specification TT-Z-991)	54.3	705.0	12.0
		100.0		
VEHICLE:	Alkyd Resin Solution (Federal Spec- ification TT-R-296, Type I, Class A)	65.0	367.0	48.8
	Mineral Spirits	34.2	193.0	29.7
	Lead Naphthenate (24%)	0.57	3.3	0.3
	Cobalt Octoate (6%)	0.23	1.3	0.2
		100.0	1,858.1	100.0

Pigment by weight = 69.6%

Vehicle by weight = 30.4%

Wt./Gal. = 13.1 lb. (without zinc dust)

PV = 44.0%

* Zinc dust is to be packaged separately and mixed with paint at time of use.