

LEAD INDUSTRIES ASSOCIATION

430 LEXINGTON AVENUE 60 East 42nd Street
NEW YORK 17, N. Y.

Pigments and Chemicals Division

April 14, 1958

SUBJECT: L.I.A. PROJECT NO. 26

To Members of the Red Lead Technical Committee:

With respect to L.I.A. Project No. 26, I have been notified that the paints to be supplied by National Lead Company have been made up and sent to Perth Amboy, Sayville, and Joplin. Two additional paints have been included in the test and have been assigned the numbers L.I.A. 2616 and 2617. These paints, along with all the others originally included in L.I.A. Project No. 26, are as follows:

	Grams/Ft. ² for 2 mils dried film thickness
L.I.A. No. 2601* TT-P-86a, Type I	19.2 grams
L.I.A. No. 2602 TT-P-86a, Type I, plus Glidden Additive	-
L.I.A. No. 2603* TT-P-86a, Type II	15.5 grams
L.I.A. No. 2604 TT-P-86a, Type II, plus Glidden Additive	-
L.I.A. No. 2605* TT-P-86a, Type III	23.4 grams
L.I.A. No. 2606 TT-P-86a, Type III, plus Glidden Additive	-
L.I.A. No. 2607* TT-P-86a, Type IV	18.5 grams
L.I.A. No. 2608 TT-P-86a, Type IV, plus Glidden Additive	-
L.I.A. No. 2609* No. 1 "Defense in Depth" M-50 Primer	10.9 grams
L.I.A. No. 2610 No. 1 "Defense in Depth" M-50 Primer, plus Glidden Additive	-
L.I.A. No. 2611* T-8060 (RL-M-50)	15.8 grams
L.I.A. No. 2612 2611 plus Glidden Additive	-
L.I.A. No. 2613* T-8136 (RL-Ert)	19.2 grams
L.I.A. No. 2614 2613, plus Glidden Additive	-
L.I.A. No. 2615 Aluminum Paint with 2612 vehicle	-
L.I.A. No. 2616* 100% M-50 with 2611 vehicle	12.9 grams
L.I.A. No. 2617 100% M-50 with 2612 vehicle	-

* Supplied by National Lead Company.

The formulas of L.I.A. No. 2609, 2611, 2613 and 2616 are being sent to Messrs. Thobe, Hughes, Johnstone and Elmore.

Mr. Shobe has reported that the wetting additive does not blend with the vehicle of Type IV, TT-P-86a, and recommends that this paint be removed from the test program.



To Members of Red Lead
Technical Committee

-2-

April 11, 1958

The details of exposure to be used by National Lead Company follows:

EXPOSURES

NO. OF PANELS/PADMT (6 x 12)

S.B.

RUSTED

Sayville 45° S.

1

2

Perth Amboy 45° S.

1

2

PANELS

6" x 12" hot rolled steel panels sandblasted.
hot rolled steel panels rusted.

SYSTEM

2 mils dry per coat.

All paints brush applied.

One and two coats of primer - without and with a top coat.

The top coat is L.I.A. No. 2615 (Aluminum)

The paints, other than those already prepared by National Lead Company are being prepared by The Glidden Company and will be shipped to exposure sites in the near future.

This project will be placed on the agenda for further discussion at the meeting to be held in Sayville, N.Y. on May 8-9, 1958.

Sincerely yours,

David M. Borcina

David M. Borcina
Secretary, Red Lead Technical Committee

PAINT SERVICE LABORATORY
NATIONAL LEAD COMPANY
RESEARCH LABORATORIES BROOKLYN, N. Y.
PAINT No.

No. 1 "Defense in Depth"

L.I.R 2609

PIGMENT	\$ WEIGHT	\$ VOLUME	97 GALLON BATCH				
	66.19	30.53	POUNDS	POUNDS 100 LBS. GAL.	GALLONS	COST LB. OR GAL.	COST
M-50	99.4	98.65	1000		29.32		
Bentone 34*	0.6	1.35	6		0.40		
			1006		29.72		
	100.0	100.0					
VEHICLE	33.61	69.47					
Raw Linseed Oil	60.13	59.14	309		40.0		
Acropas 2466	21.79	20.70	112		14.0		
Mineral Spirits (Hv.)	16.93	19.22	87		13.0		
245 Lead	0.78	0.60	4		0.41		
65 Mn.	0.37	0.34	1.9		0.23		
			513.9		67.64		
	100.0	100.0	1519.9		97.36		

WEIGHT PER GALLON 15.61 LBS.

PIGMENT PER GALLON LBS.

*PIGMENT BY VOLUME IN 100%
(VOLATILE PORTION OF PAINT) 37.8

VOLATILE AND DRIER IN VEHICLE 24.6 S

COST PER GAL.

DATE 4/7/58

*Powder with 25% MnO₂

PAINT SERVICE LABORATORY
NATIONAL LEAD COMPANY

RESEARCH LABORATORIES BROOKLYN, N. Y.

PAINT NO. T-8060

LIA 2611

	\$ WEIGHT	\$ VOLUME
PIGMENT	67.18	
97 Red Lead	60	
M-50	20	
AZ033	5	
Asbestine 3x	14.6	
Bentone 34®	0.4	
	100.0	100.0

VEHICLE	32.82	
Glidden Varnish	16.74	
Raw Oil	18.53	
Aroplas 1244	35.04	
Solvesso 100	18.48	
Cellosolve	9.28	
Cobalt 6	0.19	
Lead 24	0.99	
Manganese 6	0.21	
ASA	0.54	
	100.0	100.0

100		GALLON BATCH	
POUNDS	POUNDS PER GAL. OF GAL.	GALLONS	COST LB. OR GAL.
706.4		9.65	
234		6.76	
60		1.28	
174.3		7.34	
<u>5</u>		<u>0.38</u>	
1179.7		25.41	
96.5		12.62	
106.8		13.77	
202		25.25	
106.5		14.93	
53.5		6.88	
1.11		0.15	
5.71		0.56	
1.20		0.15	
<u>3.13</u>		<u>0.28</u>	
576.45		74.59	
1756.15		100.0	

*Prewet with 20% NaOH

WEIGHT PER GALLON 17.96 LBS.

WEIGHT PER GALLON	185.	13.8 gram/Pt. ² for 2 mils dried film thickness
PIGMENT PER GALLON	185.	

3. PIGMENT BY VOLUME IN NON-
VOLATILE PORTION OF PAINT)

VOLATILE AND DRIER IN VEHICLE

COST PER GAL.

DATE 4/7/58

PAINT SERVICE LABORATORY
NATIONAL LEAD COMPANY

RESEARCH LABORATORIES BROOKLYN, N. Y.

PAINT NO. T-8136

LIA - 2613

	\$ WEIGHT	\$ VOLUME
PIGMENT	72.93	
97 Red Lead	90.17	
Asbestos 3x	8.89	
Cellite 289	0.58	
Bentone 34 [®]	0.36	
	100.0	100.0

VEHICLE	27.07	
Aroplas 1244	35.14	
Kaw Oil	18.54	
Glidden Varnish	16.79	
Solvesso 100	18.50	
Cellosolve	9.27	
ASA	0.37	
Cobalt 6	0.19	
Lead 24	0.99	
Manganese 6	0.21	
	100.0	100.0

100 GALLON BATCH				
POUNDS	POUNDS PER GAL. GALL.	GALLONS	COST LB. OR GAL.	COST
1395		18.97		
137.5		5.72		
9		0.5		
5.7		0.25		
1547.2		25.54		
201.8		25.22		
106.5		13.75		
96.4		12.60		
106.25		14.90		
53.25		6.83		
2.1		0.27		
1.11		0.15		
5.71		0.56		
1.2		0.15		
574.3		74.45		
2121.5		99.99		

*Prewet with 20% MeOH

WEIGHT PER GALLON 21.21 LBS.

PIGMENT PER GALLON LBS.

*PIGMENT BY VOLUME IN NON-
VOLATILE PORTION OF PAINT19.2 grams/Pt.² (for 2 mils dried film thickness)

VOLATILE AND DRIER IN VEHICLE 8

COST PER GAL.

DATE 4/7/58

PAINT SERVICE LABORATORY
NATIONAL LEAD COMPANY

RESEARCH LABORATORIES BROOKLYN, N. Y.

PAINT NO. T-8061

L.I.A. 2616

	\$ WEIGHT	\$ VOLUME
PIGMENT	59.88	
M-50	99.42	
Bentone 34P	0.58	
	100.0	100.0

VEHICLE	40.12	
Glidden Varnish	16.74	
Kaw Oil	18.53	
Aroplas 1244	39.06	
Solvesso 100	18.48	
Cellosolve	9.28	
Cobalt 6	0.19	
Lead 24	0.99	
Pm 6	0.21	
A3A	0.54	
	100.0	100.0

100 GALLON BATCH				
POUNDS	POUNDS PER GAL.	GALLONS	COST LB. OF GAL.	COST
854		25.03		
5		0.38		
859		25.41		
96.5		12.62		
106.8		13.77		
202		23.25		
106.5		14.93		
63.5		6.38		
1.11		0.15		
5.71		0.56		
1.20		0.15		
2.11		0.28		
575.45		75.59		
1434.45		100.0		

*Prewet with 20% MeOH

WEIGHT PER GALLON 14.34 LBS.

PIGMENT PER GALLON LBS.

(PIGMENT BY VOLUME IN NON-
VOLATILE PORTION OF PAINT)

VOLATILE AND DRIER IN VEHICLE S

COST PER GAL.

DATE 4/7/58

12.9 grams/Pt.² for 2 mils dried film thickness