

Lead Pigments

NEWSLETTER

NO. 7

Prime source of ideas on primer paint formulations

What is your most pressing need in a primer paint formulation? Here is an indication of the broad range of requirements that other paint makers have encountered and found the answers for: A pigment for incorporation in a vehicle that will dry within one hour for in 35°. A primer for the television mast on top of the Empire State for the hiccups of ships. Pigments for primers subjected to chemically contaminated atmosphere, marine environments for continuous or intermittent immersion in fresh water!

All the answers—interestingly—came from a single source: Lead Pigments Technical Letter No. 15. If you don't have a copy in your library already,

you ought to get one. It is yours for the asking.

As a sampling of its contents, we present two formulas here: L.I.A. No. 302 is an excellent formulation for oil storage tanks in a marine environment—surely a tough exposure! This primer has proved itself on field tests and actual jobs. It has been used, in fact, as a standard primer by a leading oil company. (If you want a fine primer for railroad rolling stock, try Formula L.I.A. No. 302.)

About two dozen more formulations, all performance-proved, will be found in the Technical Letter. Also in it are some Federal Specifications, and formulations approved by the Steel Structures Painting Council and the American Association of State Highway Officials.

All the formulations contain lead pigments. Many are "standard" or "compromise" primers—on which the manufacturers of pigments other than lead base their constant reminder that they've got something "as good as..." or "better than..."

Write today for your copy of Lead Pigments Technical Letter No. 15. And for further assistance in applying versatile lead pigments to any type of primer formulation, feel free to write: Lead Pigments Technical Committee, Lead Industries Association, Inc., Dept. K-2, 392 Madison Ave., New York 17, N. Y.

FORMULA L.I.A. NO. 302

Composition	Per Cent	Pounds	Gallons
PIGMENT: Red Lead (87% Grade)	30.0	750.0	3.5
2nd Yellow	5.0	125.0	1.2
Solignum Iron Oxide (70-75% Fe ₂ O ₃)	25.0	625.0	3.0
Magnesium Silicate	25.0	625.0	3.0
	100.0		
VEHICLE: Ester Gum Varnish 1"	45.0	364.0	36.2
Pure Rosin Based Linseed Oil	27.0	217.0	14.1
(2.2 viscosity less acid)	25.0	217.0	37.5
Mineral Spirits and Naphthalene Driers	1.0	1.0	1.0
	100.0	1363.0	136.3
Pigment by weight	51.0%		
Vehicle by weight	49.0%		
Wt./Gal.	17.6 lb.		
PV	30		

DRYING TIME: For Handling 4 to 6 hours
For Recoating about 18 hours

(1) 25 gal. Ester Gum Dehydrated Castor Oil Varnish, 45% RV

FORMULA L.I.A. NO. 305

Composition	Per Cent	Pounds	Gallons
PIGMENT: Red Lead (87% Grade)	30.0	750.0	3.5
2nd Yellow	5.0	125.0	1.2
2nd Oxide	10.0	250.0	2.0
Solignum Iron Oxide (80% Fe ₂ O ₃)	7.0	175.0	1.0
Magnesium Silicate	10.0	250.0	2.0
Quaternary Silica	5.0	125.0	1.0
	100.0		
VEHICLE: Vehicle No. 27+	24.0	436.0	34.5
Mineral Spirits	22.0	396.0	32.5
Driers	1.0	1.0	0.0
	100.0	1331.0	133.1

Pigment by weight 61.0%
Vehicle by weight 39.0%
Wt./Gal. 13.23 lb.
PV 60

DRYING TIME: For Handling 1 hour
For Recoating 24 hours
Viscosity 50-60 Krebs Units
Reduction for Spray 4 parts of primer to 1 part of V.M. & P. Naphtha
Reduction for Brush 6 parts of primer to 1 part of aromatic hydrocarbon of boiling range 120-170° F. and approximately 50% aromatic

(1) Vehicle No. 27
Dehydrated Castor Oil Fatty Acids 31.0%
Glycerine 15.0%
Phthalic Anhydride 10.0%
Mineral Spirits 35.0%
100.0%

(Coating procedure, see Technical Letter No. 15.)



LEAD INDUSTRIES ASSOCIATION, INC.
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Look Ahead with Lead

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