

AMERICAN COATINGS

EP SERIES EPOXY PHENOLIC

Chemical resistant Epoxy Phenolic tank linings for immersion service.

GENERAL FEATURES

- HIGH PERFORMANCE TANK LINING
- SELF PRIMING
- EXCELLENT RESISTANCE TO ABRASION
- RESISTANT TO A WIDE RANGE OF CHEMICALS
- CAN BE FORCED CURED

DESCRIPTION

American EP Series Epoxy Phenolic products are formulated for a tank-lining product that is both self priming and resistant to a very wide range of chemicals. EP Series Epoxy Phenolics can be applied to steel, galvanize, aluminum, and concrete surfaces. Also available in a glass flake filled version (EP8505 and EP8525) for additional abrasion resistance.

USES

American EP Series Epoxy Phenolic can be applied to the interior of piping, tanks, or vessels to protect carbon steel from a variety of chemicals. These products can also be used in select external applications that are so severe that normal conventional coatings will not perform properly.

Note: EP epoxy phenolic products are not light stable and are intended primarily for internal coating use. These products should always be topcoated within 24 hours @ 77°F for further resistance data see American EP Epoxy Phenolic chemical resistance chart.

PRODUCTS

EP 8500 Green Epoxy Phenolic
EP 8520 Gray Epoxy Phenolic
EP 8505 Green Glass Flake Filled Epoxy Phenolic
EP 8525 Gray Glass Flake Filled Epoxy Phenolic

PHYSICAL DATA

Finish ----- Gloss
Color ----- See products below
Applied Over ----- Steel & Concrete
Components ----- Two
Cure ----- Catalytic 19:1

Volume Solids----- 68%
*ASTM – D-2697

Recommended Dry Film

Thickness ----- 4 – 8 mils/coat
Number of Coats ----- Two
Application Method ----- Conventional or Airless Spray
Brush or roller

Thinning Required----- 10 – 15% TH 770

Dry Time @ 77°F and 50% relative humidity.

Touch ----- 2 – 4 hours
Through ----- 6 – 12 hours
Topcoat ----- 12 – 24 hours
Maximum re-coat interval if re-coating with EP Series if
77° or less -----30 days

***Theoretical Coverage at:**

Recommended Thickness----- 280 – 187 sq. ft/gal.

Temperature Limit

Immersed ----- 180°F
Atmospheric ----- 250°F

Miscellaneous Properties

Shelf Life ----- 6 months
Pot Life – mixed @ 77°F ----- 8 – 12 hours

SURFACE PREPARATION:

Steel: Immersion Service:

Preferred-White Metal Blast (SSPC-SP5-63) (Sa3)

Acceptable- Near White Metal Blast (SSPC-SP10-63)

Non Immersion Service ----- Commercial Sandblast
(SSPC-SP6-63) (Sa2)

Concrete: Chemical clean with TH 950 or sandblast to a
1 to 1.5 mil anchor profile.

*Coverages are theoretical and do make provision for
spray losses.

EP Series

APPLICATION INFORMATION

Do not apply at temperatures below 40°F or humidity above 85%.

APPLICATION METHOD

Conventional or Airless spray preferred. Brush or roller acceptable.

MIXING

Thoroughly mix Part A resin with Part B (EPC) catalyst using mechanical agitation. (19:1)

CLEAN-UP AND THINNING

Clean up and thin with TH770 thinner.

SPRAY EQUIPMENT

FOR AIRLESS SPRAY

Pump Ratio ----- 30:1
Air Supply (in) ----- 100 psi
Hose Diameter (ID) ----- 1/4”
Hose Length ----- 100’
Tip Size ----- .019-.021
Tip Size (for EP8505, Ep8525) ----- .050 or larger
Atomization Pressure (psi) ----- 2,500

FOR CONVENTIONAL SPRAY

Spray Pot Dual Regulation
Air Gauges for Pot Pressure and Atomization Pressure
Air Supply (in) ----- 100 psi
Material Hose (ID) ----- 1/2”
Material Hose Length ----- 50’
Air Hose (ID) ----- 5/16”
Fluid Pressure (psi) ----- 25 – 50
Atomization Pressure (psi) ----- 70 – 100
Fluid Tip Orifice Size (in) ----- .086

SAFETY INFORMATION

WARNING! FLAMMABLE, HARMFUL IF INHALED, CAUSES IRRITATION

Keep away from heat, sparks or flame. Vapors may cause flash fire. Use with adequate ventilation. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator during and after applications unless air monitoring demonstrates vapor/mist levels are below applicable limits. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

SHIPPING DATA

Proper Shipping Name -----Paint Liquid
Hazard Class----- Flammable Liquid
Flash Pt. °F SETA ----- 50°F
UN No.-----1263

PACKAGING

Shipping WT.	<u>PART A</u>	<u>PART B</u>
	Ones 10 lbs.	Pints .75 lbs.
	Fives 51.5 lbs.	Quart 2 lbs.

DISCLAIMER

The facts stated and the recommendations and suggestions herein are based upon experiments and supplier information believed to be reliable. No guarantee is made of their accuracy, however, and American Coatings ASSUMES NO LIABILITY FOR PRODUCT FAILURE OTHER THAN TO SUPPLY REPLACEMENT MATERIAL FOR PRODUCTS SHOWN TO BE DEFECTIVE WHEN DELIVERED OR TO REFUND THE PURCHASE PRICE. Except as stated, THERE ARE NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. AMERICAN COATINGS SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL AND CONSEQUENTIAL DAMAGES. No statement contained herein shall be construed as an inducement to infringe existing patents or as an endorsement of specific manufacturers.

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