



AMERICAN COATINGS

AZ 83 EPOXY ZINC

A two-pack organic zinc primer for heavy-duty protective paint systems or repair of inorganic zinc primers.

GENERAL FEATURES

- A TWO PART ORGANIC ZINC FOR SEVERE MARINE AND INDUSTRIAL ENVIRONMENT
- APPLICATION BY CONVENTIONAL OR AIRLESS SPRAY
- EXCELLENT SALT SPRAY RESISTANCE
- COMPATIBLE WITH OTHER COATINGS FOR TOUCH-UP OR COATINGS REPAIR
- ABILITY TO BE APPLIED OVER STEEL, CAST IRON, GALVANIZED STEEL, STAINLESS STEEL, OR ALUMINUM
- LOW 2.8 V.O.C. CONTENT

DESCRIPTION

American Coatings AZ 83 is an organic zinc rich epoxy polyamide primer for protection of steel and has excellent performance in salt or heavy weathering environments.

USES

American Coatings AZ 83 is excellent zinc for marine and industrial environments. AZ 83 can be applied as a repair system over properly prepared inorganic zinc, galvanized, or epoxy surfaces.

PHYSICAL DATA

Finish ----- Semi-Gloss
 Color ----- Green (AZ83)
 Color ----- Gray (AZ83G)
 Applied Over ----- Steel
 Components ----- Two
 Cure ----- Solvent Evaporation and
 Chemical Reaction

Volume Solids ± 2% ----- 68 – 70 % calculated
Recommended Dry Film Thickness ----- 3 – 6 mils
 Number of Coats ----- One
 Application Method ----- Conventional or Airless Spray
Thinning Required ----- 10 – 15% TH 760
 Dry Time @ 77°F and 50% RH:
 Touch ----- 30 minutes
 Through ----- 6 hours
 Topcoat ----- 12 hours

*Theoretical Coverage at:

Recommended Thickness ----- 374 – 182 sq. ft/gal

Temperature Limit

Immersed ----- 175° F

Atmospheric ----- 225° F

% Zinc in the Dried Film by Weight ----- 82%

Miscellaneous Properties

Shelf Life ----- 1 year

Pot Life – Mixed @ 77 °F ----- 6 hours

Mix Ratio (by volume) ----- 4 to 1

PERFORMANCE DATA

TEST	RESULTS
PENCIL HARDNESS ASTM D-3363	H
ADHESION ASTM D-3359	No separation of the paint film or delimitation of any square.
ADHESION ASTM D-4541	1000 psi
SALT FOG RESISTANCE ASTM B-117	Passes 1000 hours with no blistering or rusting. No undercutting from the scribe.
WEIGHT PER GALLON ASTM D-1200	20.38 ± 0.2 #/gal
WEIGHT SOLIDS % ASTM D-2369	72%
OIL IMMERSION ASTM D-1308	Passes 1000 hours
SALT WATER IMMERSION ASTM D-1308	Passes 1000 hours
SLIP CO-EFFICIENT ASTM A-328	Meets requirements for Class B rating.

SURFACE PREPARATION

Severe Service:

White Metal Sandblast (SSPC-SP5-63) (Sa3)

Moderate Service:

Commercial Sandblast (SSPC-SP6-63) (Sa2)

Moderate Service (Alternate):

Power Tool Cleaning (SSPC-SP3-63) All oil and grease should be removed from surfaces to be coated with clean rags soaked in American Coatings TH 550 or Toluol.

* Coverage's are theoretical and do not make provision for spray losses

APPLICATION INFORMATION

Do not apply below 50°F or humidities above 85 percent.

APPLICATION METHOD

Conventional or Airless Spray is recommended; however this product may be brushed or rolled. When spraying, apply in an even coat with a 50% overlap.

MIXING

Mix component A thoroughly than add component B at a 4:1 ratio taking care to eliminate any lumps. Strain contents through a 30-mesh screen. Let stand for 15 to 30 minutes before application.

CLEAN-UP AND THINNING

Clean all equipment with American Coatings TH 760 Thinner immediately after use. Thin up to 15% by volume with American Coatings TH 760 if required.

SPRAY EQUIPMENT

FOR AIRLESS SPRAY

Use a 3/8 ID Material Hose

Suppliers ----- Graco, DeVilbiss, Speed Flo

Fluid Pump ----- 30:1

Fluid Orifice, Inches ----- .025 – .031

Approx. Fluid Pressure ----- 1,500 – 2,000 psi

FOR CONVENTIONAL SPRAY

<u>Supplier</u>	<u>Fluid Tip</u>	<u>Fluid Needle</u>	<u>Air Cap</u>
DeVilbiss	AV-601-E	MBC-444-E	AV-1239-2 AV-4024

Binks #18 66 65 66PA

Air Atomization and Pot Pressure:

Air to Gun ----- 60 – 70 psi

Air to Pot ----- 10 – 12 psi

Pot should be equipped with a mechanical agitator.

SAFETY INFORMATION

WARNING! FLAMMABLE!

AZ 83 is flammable and can cause skin and eye irritation. Keep away from 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 A Liquid

Hazard Class----- Flammable Liquid

Flash Pt. °F SETA ----- 77° F

UN No.----- 1263

Proper Shipping Name ----- Paint B Liquid

Hazard Class-----Flammable Liquid

Flash Pt. °F SETA ----- 48° F

UN No.----- 1263

PACKAGING

1 Gallon Units ----- Part A Vehicle, 1 gallon
can partially full
Part B Vehicle 1 Quart

5 Gallon Units ----- Part A Vehicle, 5 gallon
can partially full
Part B Vehicle 1 Gallon

SHIPPING WEIGHT

1 Gallon Unit ----- 23.5 lbs.

5 Gallon Unit ----- 110.5 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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