

AZ86 INORGANIC ZINC

Inorganic zinc primer for heavy-duty protective paints systems.

GENERAL FEATURES

- SELF-CURING, SOLVENT-BASED, INORGANIC ZINC THAT CURES RAPIDLY UNDER LOW TEMPERATURE, HIGH HUMIDITY CONDITIONS.
- SERVICE TEMPERATURES UP TO 750° F
- SUPERIOR ABRASION RESISTANCE
- EXCELLENT RESISTANCE TO SALT SPRAY
- EXCELLENT TANK LINING MATERIAL FOR FUELS AND ORGANIC SOLVENTS

DESCRIPTION

An inorganic permanent type primer that protects steel galvanically. AZ86 has good application properties and prevents undercutting type corrosion. AZ86 is especially suitable for cool humid environments (as low as 10° F and 95% humidity). At humidities less than 50% and temperatures below 70° F allow additional curing time before topcoating.

USES

AZ 86 is a single coat 2.5-6 mil coating used to protect steel surfaces subject to severe weathering and abrasion. More thickness may be required to coat old roughly pitted steel surfaces. AZ86 is an excellent tank lining material for fuels and organic solvents. If topcoating is required for appearance, or a permanent primer system is desired, AZ86 can be overcoated with phenolics, epoxies, polyurethanes, chlorinated rubber, or other heavy-duty topcoats. Some topcoats may require a tie coat. If exposed to alkaline, acidic fumes, or spillage, AZ 86 must be topcoated. When topcoating, a thin mist coat, followed by a full application coat applied in a crosshatch method, may be required.

NOT RECOMMENDED FOR – Contact with acids, alkalies, or salts having pH range greater than 10 or less than 5 without a suitable topcoat. Not recommended for H_2S environments.

PHYSICAL DATA

FinishFlat			
Color Green			
Applied Over Steel			
Components Two			
Cure Solvent Release and Rection			
with Atmospheric Moisture			
Volume Solids ± 2% 63.6 % ¹			
Recommended Dry Film Thickness 2.5 – 6.0 mils			
Number of Coats One			
Application Method Conventional or Airless Spray			
Thinning Required 10 – 15 % TH600 or TH620			
Dry Time @ 77° F and 50 % relative humidity			
Touch 15 – 30 minutes			
Through 8 – 12 hours			
Topcoat 12 – 16 hours			
Theoretical Coverage at:			
Recommended Thickness 408 – 170 sq.ft/gal. ²			
Temperature Limit			
Immersed Consult your American			
Coatings Representative			
Atmospheric 750° F			
Miscellaneous Properties			
% Zinc in the Dried Film			
By Weight 86 %			
Shelf Life 6 months			
Pot Life – Mixed @ 77° F 12 hours (less at			
higher temperatures)			
Mix Ratio – by Weight 10 parts A to 12 parts B			
SURFACE PREPARATION			
Immersion and Severe Service White Metal Sandblast			

Maximum product performance will be achieved by abrasive blasting with 16 – 40 mesh silica sand, G-50 steel grit, or an equivalent material to obtain a 1½ mil jagged anchor profile. Remove all oil or grease from surfaces to be coated with clean rags soaked with American TH550 or Toluol.

Non Immersion or Moderate Service ----- Near White

Non Immersion or Light Industrial Service -----

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

Metal Sandblast (SSPC-SP10-63) (Sa21/2)

(SSPC-SP5-63) (Sa3)

¹ Based on ASTM Method 2697

² Figures are theoretical and do not include provision for spray losses



AZ86

APPLICATION INFORMATION

APPLICATION METHOD

Apply AZ86 by conventional or airless spray. AZ86 should be applied in a single pass wet film with 50% overlap. Parallel right angle passes should be made holding the gun approximately 10-12 inches from the metal surface.

MIXING

Mix the vehicle portion, then combine and mix as follows. Add AZ86B Dust to AZ86A Liquid while mixing with mechanical agitation. **DO NOT MIX IN REVERSE.** Mix until free of lumps, then pour mixture through a 30 mesh screen.

CLEAN-UP AND THINNING

Clean all equipment with American TH600 Thinner immediately after use. Thin up to 15% by volume with American TH600 or TH620 Thinner if required.

SPRAY EQUIPMENT

FOR AIRLESS SPRAY

Use a 3/8" I.D. Material Hose
Suppliers Graco, Speed Flow, De Vilbiss
Fluid Pump 30:1
Fluid Orifice, inches025031"
Approx. Fluid Pressure (psi) 1,500 – 2,000 psi

FOR CONVENTIONAL SPRAY

<u>Supplier</u> DeVilbiss	Fluid Tip AV-601E	<u>Fluid Needle</u> MBC-444E	Air Cap AV-1239-2 AV-40-24	
Binks #118 or 19	66	65	66PA	
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 86 is a flammable liquid and may cause eye and skin irritation. Keep away from heat, sparks, and open flame. Keep container closed. Use only in well ventilated areas. Avoid continued breathing of vapors. Do not take internally. In case of eye contact, flush with copious amounts of water for at least 15 minutes and get medical attention.

SHIPPING DATA

Proper Shipping Name	Paint A Liquid Paint, Liquid
	Flammable Liquid
Shipping Weight	1 gallon: 8.05 pounds 5 gallon: 43.0 pounds
UN No	1263
Proper Shipping Name	Paint B Powder Zinc Dust
	N/A
Flash Pt. °F SETA	N/A
Shipping Weight	1 gallon: 14.25 pounds 3 gallon: 73.0 pounds
UN No	1436
PACKAGING	
1 Gallon Units	Part A Vehicle, 1 gallon can partially full
	Part B Dust, 1 gallon can powder
5 Gallon Units	Part B Dust, 3 gallon can partially full

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 ABLE FOR SPECIAL, INCIDENTAL AND CONSEQUENTIAL DAMAGES. No statement contained herein shall be constructed as an inducement to infringe existing patents or as an endorsement of specific manufacturers.

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