



AP-ZINC (AZ 76, American Coatings)

INORGANIC ZINC

Inorganic zinc primer for heavy-duty protective paint systems.

GENERAL FEATURES

- SELF CURING SOLVENT BASED INORGANIC ZINC THAT CURES RAPIDLY UNDER LOW TEMPERATURE, HIGH HUMIDITY CONDITIONS.
- SERVICE TEMPERATURES UP TO 400°C
- 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. AP-ZINC has good application properties and prevents undercutting type corrosion. AP-ZINC is especially suitable for cool humid environments (as low as -12°C and 95% humidity). At humidities less than 50% and temperatures below 21°C allow additional curing time before topcoating.

USES

General Industrial and Marine:

AP-ZINC is a single coat 75 - 150µ coating used to protect steel surfaces subject to severe weathering and abrasion. More thickness may be required to coat old roughly pitted steel surfaces. AP-ZINC is an excellent tank lining material for fuels and organic solvents. If topcoating is required for appearance, or a permanent primer system is desired, AP-ZINC 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, AP-ZINC must be topcoated. When topcoating with recommended organic coatings, a thin mist coat, followed by a full application coat applied in a cross hatch method, may be required.

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

1 Based on ASRM	Method 2697
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2 Coverage's are theoretical and do not make provision for spray losses

PO BOX 3944	T +5999 736 5866
Asteroïdenweg z/n	F +5999 736 5044
Willemstad, Curaçao	E info@avfpaint.com

PHYSICAL DATA

PHYSICAL DATA	
Finish	Flat
Color	
Applied Over	Steel
Components	Two
Cure S	Solvent Release and Reaction
	With Atmospheric Moisture
Volume Solids $^{1} \pm 2\%$	68%
Recommended Dry Film	
Thickness	75 - 150μ
Number of Coats	One
Application Method O	Conventional or Airless Spray
Thinning Required	10 – 15% Thinner #290
Dry Time @ 25°C and 50% RF	ł:
Touch	15 – 30 minutes
Through	15 – 30 minutes 8 – 12 hours
Through Topcoat	15 – 30 minutes 8 – 12 hours
Through Topcoat Theoretical Coverage at:	15 – 30 minutes 8 – 12 hours 12 – 16 hours
Through Topcoat Theoretical Coverage at: Recommended Thickness ²	15 – 30 minutes 8 – 12 hours 12 – 16 hours
Through Topcoat Theoretical Coverage at: Recommended Thickness ² Temperature Limit Immerse Consult yo	$15 - 30$ minutes $8 - 12$ hours $12 - 16$ hours $40 - 17$ m ² /gal. ur AVF Paint Representative
Through Topcoat Theoretical Coverage at: Recommended Thickness ² Temperature Limit Immerse Consult yo Atmospheric	$15 - 30$ minutes $8 - 12$ hours $12 - 16$ hours $40 - 17$ m ² /gal. ur AVF Paint Representative $400^{\circ}C$
Through Topcoat Theoretical Coverage at: Recommended Thickness ² Temperature Limit Immerse Consult yo	$15 - 30$ minutes $8 - 12$ hours $12 - 16$ hours $40 - 17$ m ² /gal. ur AVF Paint Representative 400° C Zinc in the Dried Film
Through Topcoat Theoretical Coverage at: Recommended Thickness ² Temperature Limit Immerse Consult yo Atmospheric Miscellaneous Properties %	$15 - 30$ minutes $8 - 12$ hours $12 - 16$ hours $40 - 17$ m ² /gal. ur AVF Paint Representative 400° C Zinc in the Dried Film 76
Through Topcoat Theoretical Coverage at: Recommended Thickness ² Temperature Limit Immerse Consult yo Atmospheric Miscellaneous Properties % 2 By Weight	$15 - 30$ minutes $8 - 12$ hours $12 - 16$ hours $40 - 17$ m ² /gal. ur AVF Paint Representative 400° C Zinc in the Dried Film 76

PERFORMANCE DATA

TEST	RESULTS
PENCIL HARDNESS	НВ ТО Н
ASTM D-3363	
ADHESION	No separation of the paint film
ASTM D-3359	or delamination of any square.
ADHESION	600 psi
ASTM D-4541	
SALT FOG	Passes 1000 hours with no
RESISTANCE	blistering or rusting. No
ASTM B-117	undercutting from the scribe.
WEIGHT PER	
GALLON	$7.5 \pm 0.1 \text{ Kg/gal}$
ASTM D-1200	
WEIGHT SOLIDS %	70.6%
ASTM D-2369	
OIL IMMERSION	Passes 1000 hours
ASTM D-1308	
SALT WATER	
IMMERSION	Passes 1000 hours
ASTM D-1308	
SLIP COEFFICEINT	Meets requirements for Class
ASTM A-328	B rating.

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SURFACE PREPARATION

Immersion and/or Severe Service: White Metal Sandblast (SSPC-SP5-63) (Sa3)

Non-immersion or Moderate Service:

Near White Metal Sandblast (SSPC-SP10-63) (Sa2 1/2)

Non-immersion or Light Industrial Service:

Commercial Metal Sandblast (SSPC-SP6-63) (Sa2) 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 38µ jagged anchor profile. Remove all oil or grease from surfaces to be coated with clean rags soaked with Toluol.

APPLICATION INFORMATION **APPLICATION METHOD**

Apply AP-ZINC by conventional or airless spray. AP-ZINC 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 AP-ZINC POWDER to AP ZINC 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 Thinner #290 immediately after use. Thin up to 15% by volume with Thinner #290 if required.

SPRAY EQUIPMENT

FOR AIRLESS SPRAY

Use a 3/8" I. D. Material Hose Suppliers ----- Graco, Speed Flo, De Vilbiss Fluid Pump ------ 30:1 Fluid Orifice, Inches ----- 0.025 - 0.031

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

FOR CONVENTIONAL SPRAY

Supplier	Fluid Tip	Fluid Needle	e Air Cap
De Vilbiss	AV-601-E	MBC-444-E	AV-1239-2
			AV-40-24
Binks #18	66	65	66PA
Or # 19			
Air to Gun			60 – 70 psi
Air to Pot -			10 – 12 psi
Pot should	be equipped w	ith a mechanica	l agitator.

SAFETY INFORMATION WARNING! FLAMMABLE

AP ZINC is a flammable liquid and may cause eve 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 contact, flush with copious amounts of water for at least 15 minutes and get medical attention.

SHIPPING DATA	Part A	Part B	
Proper Shipping Name	Paint Liquid	Zinc Dust	
Hazard Class	Flammable	N/A	
Flash Pt. °C SETA	16°C	N/A	
Shipping Wt(Kg)	<u>5 gallon</u>	3 gallon	
	18.8	21	
UN No.	1263	1436	
PACKAGING			
5 Gallon Units			
Part A Vehicle 5 gallon can partially full			
Part B Dust	3 gallon ca	an of powder	

MATERIAL SAFETY

Safety Data Sheet of the product is available on request.

For more information please contact; AVF Paints (Pintuco Curacao B.V.) Asteroidenweg z/n Willemstad, Curacao Tel:(5999)7365866

e-mail: info@avfpaint.com

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