

MPCI Product Data Sheet
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Correz™AC

Caustic Resistant Coating

PRODUCT DESCRIPTION

Correz™AC is a three part epoxy silicate coating that provides exceptional caustic protection in demanding environments. If rust inhibition is required, the formula can be modified by the addition of zinc salts to form an anti-corrosive, caustic resistant coating with low moisture permeability. The coating is a unique formulation of epoxy and ethyl silicates that enables an ambient cure system, yielding a final coat that is tough and durable. The coating is VOC compliant, with no hazardous materials and is safe and easy to apply by air or airless spray equipment or brush. When curing, a strong interpenetrating network forms within a unique epoxy base to provide exceptional toughness, adhesive strength, hardness, and crack resistance.

FEATURES

- Excellent liner for tanks in caustic service
- Resists cracking and delamination
- Long service life: ~10 years
- Provides a strong substrate for topcoats
- Suited for most pulp and paper, chemical processing, petroleum, and manufacturing environments
- Superior adhesion on a wide range of primed and unprimed materials
- Direct-to-metal application
- Reduces application, logistics, and maintenance costs
- Good thermal cycling resistance
- Excellent chemical resistance
- Tolerant of surface variability

USES

- Liners for tanks that hold particularly aggressive chemicals
- Liners for rail cars and trucks that carry aggressive chemicals
- Steel structures in wet caustic environments

SUBSTRATES AND SURFACE PREPARATION

General

Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Pitted and corroded substrates may require decontamination with a salt removing solution in water.

Carbon Steel

Immersion: SSPC-SP5

Insulated (recommended): SSPC-SP10

Insulated (minimum): SSPC-SP6

Surface Profile: 2.5 – 3.0 mils

Limited Access: SSPC-SP11 is a suitable preparation method for small and hard to access areas or when sandblasting is prohibited.

Stainless Steel

Same as Carbon Steel

Galvanized Steel

General: surface preparation should not remove the protective galvanized plating. Clean surface per SSPC-SP1.

Aluminum

Same as galvanized steel.

Concrete

Prepare in accordance with SSPC SP-13.

Previously Painted Surfaces

Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 5B rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

CHEMICAL RESISTANCE

Correz™AC is resistant to most organic and inorganic type reagents. It is resistant to alkalis, dilute acids, and neutral salt solutions.

Resistant to most organic solvents.

APPLICATION EQUIPMENT

Spray Application (General)

This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

Pressure pot equipped with dual regulators, 3/8” I.D. minimum material hose, 0.070” I.D. fluid tip and appropriate air cap.

Airless Spray

- Pump Ratio: 30-1 (min)
- GPM Output: 3.0 (min)
- Material Hose: 3/8” I.D. (min)
- Tip Size: 0.015” – 0.031”
- Output PSI: 2100 – 2300
- Filter Size: 50 mesh

Brush and Roller (General)

Multiple coats may be required to obtain desired appearance, recommended dry film thickness, and adequate hiding. Avoid excessive re-brushing, re-rolling.

Brush

Use a medium bristle brush

Roller

Use a short-nap synthetic roller cover with phenolic core.

MIXING AND THINNING

Mixing

Power mix separately, then combine and power mix.

DO NOT MIX PARTIAL KITS.

Ratio: 15.5:12:1 (A:B:C)

Thinning: None

Pot Life: 2 hrs @ 72°F, 4 hrs if sealed.

CLEANUP AND SAFETY

Cleanup

Use Isopropyl Alcohol, MEK, or Acetone. In case of spillage, absorb and dispose per local regulations.

Safety

Follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Wear appropriate Personnel Protective Equipment.

Caution

Flammable material – keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shipping Weight: 1 Gallon Kit – 13.8 lbs
5 Gallon Kit – 66.25 lbs

Flash Point: Part A: 78°F, Part B: 148°F, Part C: 77°F

Storage Temperature & Humidity: Store indoors at 32°F to 100°F, at ambient Relative Humidity

Shelf Life: 6 months at 75°F

APPLICATION CONDITIONS				
Condition	Material	Surface	Ambient	Humidity
Normal	60-85°F	60°F	60-90°F	40 - 70%
Minimum	50°F	50°F	50°F	20%
Maximum	100°F	90°F	110°F	95%

CURING SCHEDULE			
Surface Temp.	Dry to Recoat	Dry to Topcoat	Final Cure
50°F	1 hr to 24 hrs	3 hrs	7 days
90°F	1 hr to 24 hrs	3 hrs	1 day

TECHNICAL DATA	
Characteristics	Correz™ AC
Generic Type	Epoxy - Silicate
Mix Ratio by volume	15.5:12:1
Temperature resistance	
Continuous	250°F
Percent (%) Solids by volume	94% solids
VOC	0.78lbs/gallon (93grams/liter)
Dry film thickness per coat	12 - 14 mils
Wet film thickness per coat	14 - 16.5 mils
Application temperature	50°F Ambient or above
Cure time: To recoat	Minimum 1 hr @ 50°F
Weight per gallon	12.61lbs/gallon
Pot life: @ 50°F	4 hrs
@ 75°F	2 hrs
@ 90°F	1.5 hrs

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