



american coating technologies

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Product Technical Data

AM 2010G Grey Protective Coatings

Product Description

AM 2010G Coating is a Protective Coatings consistently produces products of exceptional chemistry delivering the best in corrosion protection, while being safe for our environment and user friendly.

Chemical Resistance:

Table with 2 columns: Chemical Name and Resistance Level. Includes Acetic Acid, Sodium Hydroxide, Mineral Spirits, Brine Water, Diesel Fuel, Gasoline, Crude Oil, Ethylene Glycol, Sewage, Non-potable Water, Ethanol, Hydrochloric Acid, Ammonium Hydroxide, Sulfuric Acid, Copper Sulfate, Fatty Acids, Potassium Hydroxide, Caster Oil, Sodium Chloride, Alkalis, and Wine.

Color:

Dark Gray, Light Gray

Container Size:

1 gallon kits, 4 gallon kits, bulk 5 gallon pails, and 50 gallon drums

Coverage per gallon (Theoretical):

160 sq. ft. @10 mils thickness

Flash Point:

Greater than 250°F (121°C)

Pull-Off Adhesion Test ASTM D:

Minimum adhesion is 2850 psi

Specific Gravity:

Resin: 1.48; Hardener: 0.97

Volatile Organic Compounds (VOC):

0 grams/liter

Weight Per Gallon:

10.86 lbs

Pot Life:

Table with 2 columns: Temperature and Pot Life. Includes 40°F (4°C) 8 hours, 30 minutes; 75°F (24°C) 1 hour 5 minutes; 92°F (33°C) 55 minutes.

Cure Time (AT 70°F OR 21°C):

Table with 2 columns: Service Type and Cure Time. Includes Re-coat Window 24 hours maximum; Light Loading 2 days; Immersion (Aqueous) Service 3 days; Full or Chemical Service 7 days.

Note: Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exotherm—heat created during the curing process—will considerably shorten the pot life.

Features & Benefits:

- 100% Solids, No VOCs
• Excellent immersion resistance

Service Temperature:

Table with 2 columns: Service Type and Temperature. Includes Dry Service -30°F—250°F (121°C); Spill/Splash 200°F (93°C); *Immersion Service 170°F (76.7°C); *Water Immersion 190°F (90°C) — Atlas test cell for 60 days, unaffected.

Handling Properties:

Mix Ratio, by volume: 3 parts Resin / 1 part Hardener
Working Life, 200-gram mass: 40 mins. @ 25°C (77°F)
Working Life, 200-gram mass: 20 mins. @ 43°C (110°F)
Consistency: Flowable Liquid
Thinner: TH 1170
Clean-Up: MEK

Cure Schedule:

Curing times are affected by the amount of air ventilation and circulation as well as the relative humidity level. Heat curing may be used to decrease return-to-service time and increase Chemical resistance properties.

Temperature — 10°C (50°F):

To Touch: 8 – 10 hours
Hard Dry: 36 – 40 hours
Recoat Window: Up to 14 days

Temperature — 25°C (77°F):

To Touch: 3 – 4 hours
Hard Dry: 24 – 26 hours
Recoat Window: Up to 14 days

Temperature — 60°C (140°F):

To Touch: 1 – 2 hours
Hard Dry: 6 – 8 hours
Recoat Window: *Not recommended

* If an additional coat is required, surface must be abraded to create a slight profile to maximize adhesion.

Safety:

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using.

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APPLICATION GUIDELINES:

Surface Preparation:

For best adhesion properties, surfaces should be clean and free of any dirt, oils, greases, or salts prior to application. NACE-2, SSPC-PC-10 Near White with jagged profile of 2.5 – 3.5 mils.

Recommended Total Dry Film Thickness:

15 – 35 mils Plural Spray, 6 – 15 mils Single Leg or Hand Application

Guidelines for Plural Component Spray Method:

Tip Size: .025 – .029 reversible type
Diameter of Part A Fluid Line: 1/2" ID
Diameter of Part B Fluid Line: 3/8" ID
Spray Line: 1/2" ID x 50 feet maximum
Diameter of Whip: 1/4—3/8" ID
Length of Whip: 20 feet
Power Ratio Pump: Graco 56:1 or greater
Static Mixer: 1/2" ID x 12" in length behind mixing valve
Part A Resin Temperature: 130—135°F in reservoir tank
Part B Hardener Temperature: 90 – 95°F in reservoir tank

Guidelines for Single-Leg or Hot Pot Application:

Tip Size: 0.023 – 0.027
Pump Size: 56:1 or greater
Hose Length/Diameter: 50 ft x 3/8"
Whip Length/Diameter: 10 ft x 1/4"
Work Life, 4 gallons at 32°C (90°F): No Thinner: 25 minutes
3 – 5% Thinner: 35 – 40 minutes

Consult with American Coating representative before adding thinner to product or using hose lengths/diameters outside the stated recommendations.

Brush / Roller Application:

This material may be applied with brush or roller. Be aware of working life when using brush or roller application.

Holding Primer Application:

To use as a Holding Primer, this product should be reduced with American coating thinner to achieve a dry film thickness of 3 – 5 mils on newly blasted steel. The amount of thinner is dependent on equipment and application temperature.. The minimum pump ratio should be 30:1. Refer to the Handling section for information on pot life. Tack-free time of a 5-mil coating is 5 – 8 hours depending on temperature, humidity, and amount of thinner used. The holding primer may be top coated with American Coating products within 21 days. SC-3300 Holding Primer is packaged in a manner where up to 20% thinner may be added to the product in the original package with sufficient room in the container for thorough mixing of the hardener.

Storage:

Products should be stored in a cool, dry location that is well ventilated. Keep lids tightly closed on containers when not in use. Store only in original containers. Keep away from direct sunlight and other sources of extreme heat.