



american coating technologies
www.amcoating.com

Product Technical Data

AM 2040R Red Protective Coatings

Product Description

AM 2040R 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. Because AM 2040R is 100% solids, it contains no volatile organic compounds or solvents, and may be safely applied in confined areas with good ventilation. AM 2040R Coating has been a leader in hybrid novella coating Technology and is the standard for lining ductile pipe used in sewage gathering systems. The AM 2040R Coating is a low viscosity product designed for immersion application on steel holding tanks in the petroleum industry, chemical industry, wastewater and the transportation industry.

Chemical Resistance:

Acetic Acid up to 10%	Hydrochloric Acid up to 20%
Sodium Hydroxide 50%	Ammonium Hydroxide 25%
Mineral Spirits	Sulfuric Acid 75%
Brine Water	Copper Sulfate
Diesel Fuel	Fatty Acids
Gasoline	Potassium Hydroxide 50%
Crude Oil	Caster Oil
Ethylene Glycol	Sodium Chloride
Sewage	Alkalis
Non-potable Water	Wine
Ethanol	

Color:

Rust Red

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:

@ 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):

Re-coat Window	24 hours maximum
Light Loading Immersion (Aqueous) Service	2 days
Full or Chemical Service	3 days
	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. Pour the coating into a rolling tray or large aluminum- basting pan. Try to keep the depth of the coating in the tray below 3/8".

Features & Benefits:

- 100% Solids, No VOCs
- Excellent immersion resistance

Service Temperature:

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. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

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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.