



american coating technologies

www.amcoating.com

Product Technical Data

AM 5440R Chemical Resistant For Containment

Product Description

AM 5410 is a 100% solids novolac coating designed for maximum heat and chemical resistance. Excellent coating for floors, secondary containment, primary containment ducts, piping, vessels, and storage tanks.

Chemical Resistance:

Ammonium Hydroxide
Aromatic & Aliphatic Solvents
Black Liquor
Butyl Acetate
Butyl Carbitol
Chlorinated Solvents (Except Methylene Chloride)
Chlorides
Chromic Acid up to 30%
Hydrochloric acid (up to 90%)
Hydrogen Sulfide
MEK
Nitric Acid up to 30%
Organic Acids (Many)
Phosphates
Phosphoric Acid up to 100%
Potassium Hydroxide
Salts
Sodium Hydroxide
Sulfides
Sulfuric Acid up to 98%
White Liquor

Physical Properties:

Adhesion Strength:

Test Method: **ASTM 4541**
Typical Value: **3,000 PSI**

Abrasion Resistance:

Test Method: **ASTM D 4060 CS17 Wheel**
Typical Value: **1000 Cycles 1 KG 37 MG**

Rockwell Hardness:

Test Method: **ASTM D 2240**
Typical Value: **80**

Compression Strength:

Test Method: **ASTM D695**
Typical Value: **15,000 PSI**

Flexural Strength:

Test Method: **D 790**
Typical Value: **13,000 PSI**

Tensile Shear Strength:

Test Method: **D 1002**
Typical Value: **3,500 PSI**

Color:

SC5410 (Red)

Container Size:

1 gallons kit or 4X1 quart case

Coverage per gallon (Theoretical):

160 sq. ft. @ 10 mils thickness

Coefficient of Expansion (10 6/per °F):

1.8

Flash Point:

Greater than 250°F (121°C)

Pull-Off Adhesion Test ASTM D 4541:

Minimum adhesion is 2800 psi

Recommended Thickness:

2-3 coats @ 10 mils each; for high temps/severe chemical 3-4 coats @ 10 mils each is recommended.

Specific Gravity:

Resin: 1.51
Hardener: 0.95

Volatile Organic Compounds (VOC):

0 grams/liter

Weight Per Gallon:

11.39 lbs

Pot Life:

@ 40°F (4°C) 15 minutes
@ 75°F (24°C) 2 hours
@ 92°F (33°C) 30 minutes

Cure Time (AT 70°F OR 21°C):

Re-coat Window 1-1 1/2 hours
Light Loading 12 hours
Immersion
(Aqueous) Service 30 hours
Full Cure 7 days

Note: Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exothermic heat created during the curing process will considerably shorten the pot life. Pour the coating into rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8".

Pump Specifications:

Pump Ratio 56:1 or greater
Minimum Output 5600 psi
Product Hose:
Min.—Optimum I.D. 0.375–0.5 inch
Max. Length 50 feet

Features & Benefits:

- 100% Solids, No VOCs
- Excellent chemical resistance
- Maximum heat resistance

Service Temperature:

Dry Service 450°F (232°C)
Spill/Splash 360°F (182°C)
Immersion Service* 300°F (149°C)

*Immersion with solvents, mineral acids, or alkaline, or if over 150°F contact

Multiple Coats:

Second and subsequent coats must be applied before the previous coat has completely cross-linked. Apply additional coats when the previous coat will still string out (pigtail) and hold its shape when touched. If any slight tack remains, allow the product to cure, then brush blast before applying the next coat.

The same requirement applies when overlapping the seams of adjacent coating sections to create a continuous protective film. If the coating surface to be overlapped at the seam cannot be brush blasted, use a non-impact means such as power brushing or sanding to create a mechanical profile.

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