



american coating technologies

www.amcoating.com

Product Technical Data

AM 5410 High Heat Resistant

Product Description

AM 5410 is a 100% solids Novolac coating designed for maximum heat and chemical resistance. This product will provide protect in immersion service up to 300°f and is excellent coating for floors, secondary 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%
(Many) Organic Acids
Phosphates
Phosphoric Acid up to 100%
Potassium Hydroxide
Salts
Sodium Hydroxide
Sulfides
Sulfuric Acid up to 98%
White Liquor

Adhesion Strength:

ASTM 4541 3,000 PSI

Abrasion Resistance:

ASTM D 4060 CS17
Wheel 1000 Cycles 1 KG 37MG

Rockwell Hardness:

ASTM D 2240 80

Compression Strength:

ASTM D695 15,000 PSI

Flexural Strength:

D 790 13,000 PSI

Tensile Shear Strength:

D 1002 3,500 PSI

Color:

SC5410 (Light Gray), SC5420 (Dark Gray)

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 at 10 mils
each is recommended

Specific Gravity:

Resin: 1.51; Hardener: 0.95

Volatile Organic Compounds (VOC):

0 grams/liter

Weight per gallon:

0 grams/liter

Pot Life at 40°F (4°C):

75°F (24°C) 2 hours, 30 minutes
92°F (33°C) 15 minutes

Cure Time (at 75°F):

Re-coat Window 1-1.5 hours
Light Loading 12 hours
Immersion
(Aqueous) Service 30 hours
Full Service or
Chemica Service 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 a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8".

Advantages & Benefits:

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

Pot Life at 40°F (4°C):

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 factory.

Pump Specifications:

Pump Ratio 56:1 or greater
Minimum Output 5,600 PSI
Product Hose: Min.
—Optimum I.D. 0.375-0.5 inch
Max. Length 50 feet

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.

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.

See reverse side for our liability and warranty.

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