



**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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