



american coating technologies

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Product Technical Data

AM 5720 Ceramic Rebuilding Paste

Product Description

EP5720 is a 100% solid Novolac coating designed for maximum heat and chemical resistance. Excellent rebuilding paste grade for repairing badly pitted steel in tube sheets, chutes, hoppers, turbine blades, storage tanks and vessels etc. EP5720 is a true high performance chemical resistant with great heat resistance coating.

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 100% (38% Hydrogen Chloride content)
- Hydrofluoric Acid up to 35%
- Hydrogen Sulfide
- MEK
- Nitric Acid up to 30%
- Many Organic Acids
- Phosphoric Acid up to 75%
- Phosphates
- Potassium Hydroxide
- Salts
- Sodium Hydroxide
- Sodium Hypochlorite up to 50%
- Sulfides
- Sulfuric Acid up to 98%
- White Liquor

Physical Properties:

Adhesion Strength:

Test Method: **ASTM D 4541**
Typical Value: **2,500 PSI**

Abrasion Resistance:

Test Method: **ASTM D 4060 CS17 WHEEL**
Typical Value: **1000 CYCLES 1 KG 35MG**

Rockwell Hardness:

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

Compression Strength:

Test Method: **ASTM D695**
Typical Value: **17,000 PSI**

Flexural Strength:

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

Tensile Shear Strength:

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

Color:

Light and Dark Gray

Container Size:

1 gallon kits, 4X1 quart case kit

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*:

Up to 250 mils

Specific Gravity:

Resin: 1.51; Hardener: 0.95

Volatile Organic Compounds (VOC):

0 grams/liter

Weight Per Gallon:

11.39 lbs

Pot Life:

| | |
|----------------|--------------------|
| @ 45°F (7°C): | 5 hours 40 minutes |
| @ 75°F (24°C): | 1 hour |
| @ 92°F (33°C): | 25 minutes |

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".

Service Temperature:

| | |
|--------------|---------------|
| Dry Service: | 450°F (232°C) |
| Splash: | 360°F (182°C) |
| 92°F (33°C): | 300°F (149°C) |

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

CURE TIME @ 75°F or 24°C:

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

Product Features & Benefits

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

Multiple Coats:

Second and subsequent coats must be applied before the previous coat has completely cross-linked. If additional coats are needed after re-coat window, brush blast before applying the next coat. Sanding or wire brushing may abrade small areas.

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 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.

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