Surfacing Polymer



MeCaCorr 780

Ceramic Hybrid Epoxy Coating

TECHNICAL DATA SHEET

MeCaTeC

DESCRIPTION

MeCaTec MeCaCorr 780 is a ceramic hybrid epoxy coating that incorporates an advanced molecular cross-linking of inorganic and organic chemistry to provide a thermally stable high performance polymer matrix. The matrix is designed to achieve maximum corrosion protection and temperature resistance in immersion service. This 100% solids, zero VOCs coating technology is a two component system that can be spray applied in a single coat.

APPLICATIONS

- Tank Lining
- Scrubbers
- Immersion Heater
 Stack Lining
- Amine Vessel
- Heat Exchanger Autoclave

Pipe Lining

Condensate

COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness	Theoretical Coverage Rate
4 lb (940 ml) (Cartridge)	20 mils (508 µm)	19.9 ft² (1.85 m²)
4.3 lb (1.9 kg)	20 mils (508 µm)	21.3 ft ² (1.98 m ²)
21.3 lb (9.7 kg)	20 mils (508 µm)	105.9 ft² (9.84 m²)
51.6 lb (23.5 kg)	20 mils (508 µm)	257.4 ft² (23.91 m²)
231.8 lb (105.4 kg)	20 mils (508 µm)	1155.6 ft² (107.3 m²)

Practical Coverage = Theoretical Coverage - Waste Factor

COATING DRY FILM THICKNESS

Minimum thickness – 16 mils (406 µm) Suggested thickness – 20 mils (508 µm)

TECHNICAL DATA

Performance / Property		Results
Hardness	ASTM D2240	[Shore D] 85
Pull Off Adhesion	ASTM D4541	≥5000 psi (≥34 MPa)
X Cut Adhesion	ASTM D6677	Rating 10
Steam Out Resistance (96 hours)		410°F (210°C)
Abrasion Resistance	ASTM D4060	≤50 mg
Autoclave, NACE TM0185 356°F (180°C) for 7 days		Pass

PHYSICAL DATA

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Color	Dark Brown
Mix Ratio	4:1 by volume
Mix Ratio	8.28:1 by weight
Sag Resistance (25 mils/6.3 mm)	No Sag
Pot Life (77°F / 25°C)	40 minutes
Low Temperature Application	>55°F (>12°C)
Max. Recoat Window (75°F/24°C)	No recoat time, must be applied wet on wet
Percent Solids	100%
Odor	Slight to nil
Mixed Density	1.93 g/ml
Max. Operating Temp Wet Service	356°F (180°C)
Max. Operating Temp Dry Service	470°F (243°C)
Cure Time - Touch (77°F / 25°C)	3 hours
Cure Time - Handle (77°F / 25°C)	11 hours

Before applying this product, please refer to the Application Instructions.

PACKAGING

940 ml / 0.25 Gal / 1.8 Kg / 4.0 lb Cartridge Tube 1.0 L / 0.3 gal / 1.9 kg / 4.3 lb Kit 5.0 L / 1.3 gal / 9.7 kg / 21.3 lb Kit 12.2 L / 3.2 gal / 23.5 kg / 51.6 lb Kit 54.5 L / 14.4 gal / 105.4 kg / 231.8 lb Kit Larger volume packaging for plural component spray is available upon request.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



EUTECTIC CORPORATION N94 W14355 Garwin Mace Drive Menomonee Falls WI 53051 USA Tel.: +1 (800) 558-8524

EUTECTIC CANADA 428, rue Aimé-Vincent Vaudreuil-Dorion, Québec J7V 5V5 Canada Tel.: +1 (800) 361-9439



mecatecpolymers.com

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