

DESCRIPTION

MeCaCorr 710 is fluid ceramic polymer coating. The polymer composite matrix is designed to achieve wear and chemical resistance for continuous immersion service up to 150°F (65°C). The coating chemistry provides outstanding corrosion and chemical resistance allowing it to be used in a wide variety of environments including caustic and acid service.

This 100% solid, zero VOC, solvent free coating technology offers fast return to service and excellent edge retention properties. MeCaCorr 710 is designed for application versatility, it can be applied by brush, by MeCaSpray's 2:1 cartridge spray system or through a 2:1 ratio heated plural component spray system for maximum versatility.

APPLICATIONS

- Heat Exchangers
- Water Box
- Turbines
- Sea Water
- Pump Casing
- Tube Sheet
- Waste Water
- Chemicals
- Pipelining
- Storage Tanks
- Concrete Containment
- Hydrocarbon

COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness (2 coats)	Theoretical Coverage Rate
3.9 lb (1125 ml) (Cartridge)	30 mils (762 µm)	15.9 ft ² (1.48 m ²)
3.3 lb (1.5 kg)	30 mils (762 µm)	13.4 ft ² (1.24 m ²)
16.5 lb (7.5kg)	30 mils (762 µm)	67.2 ft ² (6.24 m ²)
155.1 lb (70.5kg)	30 mils (762 µm)	631.6 ft ² (58.7 m ²)

Practical Coverage = Theoretical Coverage - Waste Factor

COATING DRY FILM THICKNESS

Minimum thickness - 16 mils (406 µm) 1 coat
 Suggested thickness - 30 mils (762 µm) 2 coats -15 mils per coat
 High wear and chemical exposure - 40 mils (1 mm) 2 - 3 coats depending on the application method

TECHNICAL DATA

Performance / Property	Results
Hardness ASTM D2240	[Shore D] 80
Pull Off Adhesion ASTM D4541	≥4,931 psi (≥33 MPa)
X Cut Adhesion ASTM D6677	Rating 10
Abrasion Resistance ASTM D4060	≤ 15 mg
Cathodic Disbondment 1.5V for 28 days @ 175°F (80°C)	<8 mm (<0.32 in)
Compressive Strength ASTM D694	≥9,427 psi (≥64 MPa)
Flexural Strength ASTM D790	≥13,488 psi (≥92 MPa)
Atlas Cell, Sea water 70°C for 28 days NACETM0174	No change
Autoclave, 120°C for 7 days NACETM0185	Pass

PHYSICAL DATA

Color	Blue, Red, Lt Green
Mix Ratio	2:1 by volume
Mix Ratio	2:1 by weight
Sag Resistance (20 mils / 508 µm)	No Sag
Pot Life (77°F / 25°C)	35 minutes
Low Temperature Application	>50°F (>10°C)
Max. Recoat Window (77°F / 25°C)	24 hours
Percent Solids	100%
Odor	Slight to nil
Max. Operating Temp. - Wet Service	150°F (65°C)
Max. Operating Temp. - Dry Service	212°F (100°C)
Cure Time - Touch (77°F / 25°C)	3 hours
Cure Time - Handle (77°F / 25°C)	10 hours

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

PACKAGING

1125 ml / 0.3 gal / 1.8 kg / 3.9 lb Cartridge Tube
 1 L / 0.264 gal / 1.5 kg / 3.3 lb Kit
 4.8 L / 1.3 gal / 7.5 kg / 16.5 lb Kit
 44.7 L / 11.8 gal / 70.5 kg / 155.1 lb Kit

Larger volume packaging for plural component spray is available upon request.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS

