



DESCRIPTION

MeCaCorr 700 is a polymer ceramic composite coating chemistry that incorporates a proprietary blend of ceramic additives modified in a semi elastomeric epoxy resin system. The matrix is designed to achieve wear and chemical resistance characteristics for the restoration and protection of metallic and concrete substrates subjected to erosion, corrosion and chemical attack.

MeCaCorr 700 provides outstanding chemical resistance allowing it to be used in a wide variety of environments including crude oil and wastewater service. This 100% solids, zero VOC technology offers fast return to service and edge retentive properties. The coating system is designed for application versatility, it can be applied by brush and roller, hot potted through a single component airless pump or applied through a heated 1:1 ratio plural component pump for maximum production throughput.

APPLICATIONS

- Concrete Protection
- Pipelines
- Forcemains
- Penstocks
- Sewer Pipe
- Digester Tanks
- Lift Stations
- Manholes
- Concrete Clarifier

COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness	Theoretical Coverage Rate
4.8 lb (1500 ml) (Cartridge)	25 mils (635 µm)	25.4 ft ² (2.36 m ²)
3.30 lb (1.5 kg)	25 mils (635 µm)	17.7 ft ² (1.64 m ²)
19.1 lb (8.7 kg)	25 mils (635 µm)	101.7 ft ² (9.45 m ²)
96.4 lb (43.8 kg)	25 mils (635 µm)	513.8 ft ² (47.7 m ²)

Practical Coverage = Theoretical Coverage - Waste Factor

COATING DRY FILM THICKNESS

- Minimum thickness – 20 mils (508 µm)
- Suggested thickness – 25 mils (635 µm)
- Concrete protection – 40 mils (1 mm)

TECHNICAL DATA

Performance / Property		Results
Hardness	ASTM D2240	[Shore D] 80
Pull Off Adhesion	ASTM D4541	≥ 4500 psi (≥ 31 MPa)
X Cut Adhesion	ASTM D6677	Rating 10
Abrasion Resistance	ASTM D4060	100 mg
Flexibility	ASTM D522	3" mandrel (7.5cm)
Elongation		5%
Atlas Cell, 120°F (50°C) for 7 days	NACE 0174	Pass
Impact	ASTM D2794	25 in•lb (0.29 kg•m)

PHYSICAL DATA

Color	Tan
Mix Ratio	1:1 by volume
Mix Ratio	0.87:1 by weight
Sag Resistance (25 mils/6.3 mm)	No Sag
Pot Life (77°F / 25°C)	30 minutes
Low Temperature Application	>40°F (>4°C)
Max. Recoat Window (77°F / 25°C)	4 days
Percent Solids	100%
Odor	Slight to nil
Mixed Viscosity	21,600 mPa•s (cP)
Mixed Density	1.45 g/ml
Max. Operating Temp. - Wet Service	122°F (50°C)
Max. Operating Temp. - Dry Service	185°F (85°C)
Cure Time - Touch (77°F / 25°C)	2 hours
Cure Time - Handle (77°F / 25°C)	7 hours

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

PACKAGING

- 1500 ml / 0.4 gal / 2.2 kg / 4.8 lb Cartridge Tube
- 1 L / 0.3 gal / 1.5 kg / 3.3 lb
- 6 L / 1.6 gal / 8.7 kg / 19.1 lb
- 30.3 L / 8 gal / 43.8 kg / 96.4 lb

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

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