

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.

Key Benefits

- Economical and easy to use
- Designed for immersion service
- Versatile corrosion protection suitable for a variety of substrates

Applications

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

Coverage data

Theoretical coverage rate data

Square meter/liter = 1000/thickness (microns)

Square feet/gallon = 1604/thickness (mils)

625 microns = 1.6 square meter/liter

25 mils = 64 square feet/gallon

Practical coverage rate data

Practical coverage = Theoretical coverage X (1-% waste factor)

Coating dry film thickness

Minimum thickness – 500 microns (20 mils)

Suggested thickness – 625 microns (25 mils)

Concrete protection – 1000 microns (40 mils)

Technical data

Performance / Property		Results
Hardness	ASTM D 2240	[Shore D] 80
Pull Off Adhesion	ASTM D 4541	≥ 31 MPa (≥ 4500 psi)
X Cut Adhesion	ASTM D 6677	Rating 10
Abrasion Resistance	ASTM D 4060	100 mg
Flexibility	ASTM D 522	7.5 cm mandrel (3")
Elongation		5%
Atlas Cell, 50°C (120°F) for 7 days	NACE TM0174	Pass
Impact	ASTM D 2794	0.29 kg/m (25 lb/inch)

Physical data

Color	Tan
Mix Ratio	1:1 by volume
Mix Ratio	0.87:1 by weight
Sag Resistance (625 micron / 25 mils)	No Sag
Pot Life (25°C / 77°F)	30 minutes
Low Temperature Application	10°C (50°F)
Max. Re-coat Window (25°C / 77°F)	4 days
Solvent Content	Zero
Odor	Slight to nil
Mixed Viscosity	21,600 mPa-s (cP)
Mixed Density	1.45 g/ml
Max. Operating Temp. - Wet Service	50°C (122°F)
Max. Operating Temp. - Dry Service	85°C (185°F)
Cure Time - Touch (25°C / 77°F)	2 hours
Cure Time - Handle (25°C / 77°F)	7 hours
Return to service (25°C / 77°F)	72 hours
Shelf Life	2 years

Before applying this product, please refer to the Safety Data Sheet (SDS) which is available for download on www.castolin.com/msds-portal.

Packaging

1500 ml (0.39 gal) / 2.2 kg net (4.85 lb) cartridge tube - For MeCaSpray® System

1 l (0.26 gal) / 1.5 kg net (3.30 lb)

6 l (1.58 gal) / 8.7 kg net (19.18 lb)

30.3 l (8.00 gal) / 43.8 kg net (96.56 lb)

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