

DESCRIPTION

MeCaWear 355 is a high temperature ceramic epoxy composite coating that exhibits excellent erosion-corrosion resistance in immersion service. It is resistant to a wide variety of solutions including acid, base, hydrocarbon and other process chemicals. The matrix is reinforced with fine silicon carbide loading designed to achieve maximum wear and temperature resistance. The performance of MeCaWear 355 is ideal for the restoration of tanks and pressure vessels subjected to severe erosion-corrosion at elevated temperature up to 518°F (270°C).

This 100% solids, zero VOC polymer coating technology is a two component system that can be applied by spread or brush in a single coat application with a sag resistance of 40 mils (1000 µm).

APPLICATIONS

- Duct Lining
- Oil/Water Separators
- Condensate Tanks
- Scrubbers
- Air Heater
- Evaporators
- Distillation
- Vessels

COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness	Theoretical Coverage Rate
3.7 lb (940 ml) (Cartridge)	35 mils (0.9 mm)	11.4 ft ² (1.06 m ²)
12.0 lb (5.46 kg)	35 mils (0.9 mm)	36.5 ft ² (3.39 m ²)

Practical Coverage = Theoretical Coverage - Waste Factor

COATING DRY FILM THICKNESS

Minimum thickness – 25 mils (635 µm)
Suggested thickness – 35 mils (.9 mm)
For severe wear – 45 mils (1.14 mm)

PACKAGING

940 ml / 0.2 gal / 1.7 kg / 3.7 lb Cartridge Tube
3 liter / 0.8 gal / 5.46 kg / 12.0 lb Kit

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

TECHNICAL DATA

Performance / Property		Results
Hardness	ASTM D2240	[Shore D] 84
Pull Off Adhesion	ASTM D4541	≥ 5,200 psi (≥ 35 MPa)
X Cut Adhesion	ASTM D6677	Rating 10
Abrasion Resistance	ASTM D4060	49 mg
Flexibility	ASTM D522	4.0" mandrel (10 cm)
Tensile Strength	ASTM C1275	≥ 5,800 psi (≥ 40 MPa)
Elongation		4%
Atlas Cell, 200°F (95°C) for 7 days, NACE TM0174		Pass
Steam Out Resistance (96 hours)		410°F (210°C)
Impact	ASTM D2794	9 in•lb (0.10 kg•m)

PHYSICAL DATA

Color	Gray
Mix Ratio	4:1 by volume
Mix Ratio	7.47:1 by weight
Sag Resistance (30 mils / 762 µm)	No Sag
Pot Life (77°F / 25°C)	35 minutes
Low Temperature Application	>50°F (>10°C)
Max. Re-coat Window (77°F / 25°C)	No recoat time, must be applied wet on wet
Percent Solids	100%
Odor	Slight to nil
Mixed Viscosity	50,000 mPa•s (cP)
Mixed Density	1.82 g/ml
Max. Operating Temp. - Wet Service	300°F (150°C)
Max. Operating Temp. - Dry Service	518°F (270°C)
Cure Time - Touch (77°F / 25°C)	4 hours
Cure Time - Handle (77°F / 25°C)	12 hours
Post Cure for Chemical Exposure	140°F (60°C) for 4 hours

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

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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