Surfacing Polymer



MeCaWear 306

TECHNICAL DATA SHEET

MeCaTeC[®]

For Sliding and Fine Particle Erosion

DESCRIPTION

MeCaWear 306 is a silicon carbide based ceramic polymer coating with paint like viscosity. The ceramic epoxy novolac composite matrix is formulated to provide a low friction surface while protecting against wear by extreme sliding, fine slurry erosion and corrosion. The surface finish is modified with surface-clean technology improving the slip and cleanability of the ceramic epoxy coating. MeCaWear 306 is easily applied by brush, airless spray, plural component spray or our convenient MeCaSpray cartridge spray system in a 1:1 volume ratio.

The ceramic polymer technology is reinforced with fibre and a high loading of ceramic filler to improve toughness and performance. The coating is suitable as a lining for continuous immersion service up to 122°F (50°C). As a lining, the thick film characteristic of this polymer allows for outstanding corrosion pitting coverage and edge retention. This 100% solids, zero VOC, solvent free coating technology offers fast return to service and is designed for application versatility and performance.

APPLICATIONS

 Augers/Screws 	• Pump Casings	 Storage Tanks
• Pipe Lining & Coating	 Chutes 	• Bins

- Hoppers
- Troughs
- Floors
- Cyclones
- Cyc

COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness	Theoretical Coverage Rate
2.6 lb (1.2 Kg)	25 mils (635 μm)	14.2 ft² (1.32 m²)
4.5 lb (1500 ml) (Cartridge)	25 mils (635 μm)	25.4 ft² (2.36 m²)
46.9 lb (21.3 Kg)	25 mils (635 μm)	256 ft² (23.8 m²)

Practical Coverage = Theoretical Coverage - Waste Factor

COATING DRY FILM THICKNESS

Minimum thickness - 20 mils (508 µm) Suggested thickness - 25 mils (635 µm) For high wear and chemical exposure - 40 mils (1 mm)

TECHNICAL DATA

Performance / Property		Results
Hardness	ASTM D2240	[Shore D] 80
Pull Off Adhesion	ASTM D4541	≥5,000 psi (≥ 56 MPa)
X Cut Adhesion	ASTM D6677	Rating 10
Abrasion Resistance ASTM D4060		<52 mg
Flexibility	ASTM D522	3" mandrel
Flexural Strength	ASTM D790	≥ 13,488 psi (≥ 92 MPa)
Elongation		5%
Atlas Cell, 122°F for 7 days NACE TM0174		Pass

PHYSICAL DATA

Color	Blue/Red/Gray
Mix Ratio	1:1 by volume
Mix Ratio	0.70:1 by weight
Sag Resistance (20 mils / 508 μ m)	No Sag
Pot Life (77°F / 25°C)	32 minutes
Low Temperature Application	>50°F (>10°C)
Max. Recoat Window (77°F / 25°C)	48 hours
Percent Solids	100%
Odor	Slight
Mixed Viscosity	9,700 mPa•s (cP)
Mixed Density	1.41 g/ml
Max. Operating Temp Wet Service	122°F (50°C)
Max. Operating Temp Dry Service	195°F (90°C)
Cure Time - Touch (77°F / 25°C)	3 hours
Cure Time - Handle (77°F / 25°C)	8 hours

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

PACKAGING

840 ml / 0.22 gal. / 1.2 kg / 2.6 lb Kit 1500 ml / 0.4 gal / 2.0 kg / 4.5 lb Cartridge Tube 15 liter / 4 gal. / 21.3 kg / 46.9 lb Kit

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

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Trenches

• Fan Blades

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



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