

# MeCaWear 306

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
- Pipe Lining & Coating
- Hoppers
- Troughs
- Pump Casings
- Chutes
- Floors
- Cyclones
- Storage Tanks
- Bins
- Trenches
- Fan Blades

## 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 ft <sup>2</sup> (1.32 m <sup>2</sup> )
4.5 lb (1500 ml) (Cartridge)	25 mils (635 µm)	25.4 ft <sup>2</sup> (2.36 m <sup>2</sup> )
46.9 lb (21.3 Kg)	25 mils (635 µm)	256 ft <sup>2</sup> (23.8 m <sup>2</sup> )

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 µm)	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.

## YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS

