

# MeCaWear 300

For Sliding and Fine Particle Erosion

## DESCRIPTION

MeCaWear 300 is a fluid ceramic polymer coating. The polymer composite matrix is specially formulated to provide a low friction surface while protecting against wear by extreme sliding and fine slurry erosion. MeCaWear 300 is easily applied by brush or spray using the MeCaSpray System in a 4:1 volume ratio to provide a smooth slick finish.

The polymer technology is elastomeric modified to reduce film brittleness and improve both impact and abrasion resistance. The ceramic polymer coating is suitable for continuous immersion service up to 122°F (50°C). This 100% solids, zero VOC, solvent free coating technology offers fast return to service and is designed for application versatility.

## APPLICATIONS

- Screws
- Augers
- Fan Blades
- Pump Casings
- Chutes
- Cyclones
- Pipe Lining
- Duct Work
- Hoppers

## COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness	Theoretical Coverage Rate
3.1 lb (940 ml) (Cartridge)	25 mils (635 µm)	15.9 ft <sup>2</sup> (1.48 m <sup>2</sup> )
3.3 lb (1.5 Kg)	25 mils (635 µm)	16.8 ft <sup>2</sup> (1.56 m <sup>2</sup> )
16.8 lb (7.6 Kg)	25 mils (635 µm)	84.8 ft <sup>2</sup> (7.88 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)

## PACKAGING

940 ml / 0.2 gal / 1.4 kg / 3.1 lb Cartridge Tube  
 1 liter / 0.3 gal. / 1.5 kg / 3.3 lb Kit  
 5 liter / 1.3 gal. / 7.6 kg / 16.8 lb Kit

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

## TECHNICAL DATA

Performance / Property	Results
Hardness ASTM D2240	[Shore D] 78
Pull Off Adhesion ASTM D4541	≥ 4,931 psi (≥ 34 MPa)
X Cut Adhesion ASTM D6677	Rating 10
Abrasion Resistance ASTM D4060	<40 mg
Cathodic Disbondment, 1.5V for 28 days @ 175°F (80°C)	<12 mm (<0.47 in)
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
Mix Ratio	4:1 by volume
Mix Ratio	6.46:1 by weight
Sag Resistance (20 mils / 508 µm)	No Sag
Pot Life (77°F / 25°C)	35 minutes
Low Temperature Application	>50°F (>10°C)
Max. Recoat Window (77°F / 25°C)	48 hours
Percent Solids	100%
Odor	Slight
Mixed Viscosity	10,000 mPa•s (cP)
Mixed Density	1.52 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.

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