



MeCaWear 450

Great Alternative to Ceramic Tile & Wearplate

MeCaTeC

DESCRIPTION

MeCaWear 450 is a three-component inorganic/organic novolac based coating modified with silicon carbide and a dense packing of alumina ceramic. The polymer matrix is further reinforced with KEVLAR® fiber to form an outstanding abrasion resistant polymer for high temperature service. The hybrid polymer chemistry is designed to withstand elevated temperature up to 518°F (270°C).

MeCaWear 450 is a great alternative to ceramic tile and sheet grade wear technology. The coating can be top coated with MeCaWear 350 for additional slip resistance or contrasting wear indicating color.

This product is supplied as a kit and includes additional resin and hardener packaged as MeCaWear 450 Primer. The primer is to be used to pre-wet the substrate surface prior to the application of MeCaWear 450.

APPLICATIONS

- Duct Work
- Elbows
- Baghouse
- Pump Lining
- Fan Blades

COVERAGE DATA

Theoretical coverage rate data

Kit Weight	Recommended Coating Thickness	Theoretical Coverage Rate
11.6 lb (5.3 kg)	250 mils (6.3 mm)	3.2 ft ² (0.30 m ²)
43.9 lb (20.0 kg)	250 mils (6.3 mm)	12.2 ft ² (1.13 m ²)

Practical Coverage = Theoretical Coverage - Waste Factor

COATING DRY FILM THICKNESS

Minimum thickness – 250 mils (6.3 mm)

Maximum thickness – unlimited

PACKAGING

1.9 L / 0.5 gal / 5.3 kg / 11.6 lb Kit

7.2 L / 1.9 gal / 20 kg / 43.9 lb Kit

TECHNICAL DATA

Performance / Property		Results
Hardness	ASTM D2240	[Shore D] 85
Pull Off Adhesion	ASTM D4541	≥ 2,900 psi (≥20 MPa)
Impact	ASTM D2794	>115 in•lb (>1.32 kg•m)

PHYSICAL DATA

Color	Dark Gray
Mix Ratio	4:1 by volume
Mix Ratio	7.3:1 by weight
Sag Resistance (250 mils / 6.3 mm)	No Sag
Working Life (200g) (77°F / 25°C)	30 minutes
Low Temperature Application	>50°F (>10°C)
Percent Solids	100%
Odor	Slight to nil
Mixed Viscosity (73°F / 23°C)	>500,000 mPa•s (cP)
Mixed Density	2.77 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)	2 hours
Cure Time - Handle (77°F / 25°C)	6 hours

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

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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