

DESCRIPTION

MeCaWear 350 is a ceramic epoxy composite coating that incorporates an advanced molecular cross-linking of inorganic and pure novolac organic chemistry to provide a thermally stable polymer matrix. The matrix is reinforced with fine silicon carbide loading designed to achieve maximum wear and temperature resistance. The performance of MeCaWear 350 is ideal for the restoration of surfaces subjected to severe erosion 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 1000 microns (40 mils)

APPLICATIONS

- Bag House •Scrubbers •Chutes
- Wearplate •Air Heater •Cyclones
- Pulverizers •Fly Ash Separators

COVERAGE DATA

Theoretical coverage rate data

Square meter/liter = 1000/thickness(microns)

Square feet/gallon = 1604/thickness(mils)

625 microns = 1.6 square meter/liter

25 mils = 64 square feet/gallon

Practical coverage rate data

Practical coverage = Theoretical coverage X (1 - % waste factor)

COATING DRY FILM THICKNESS

Minimum thickness – 500 microns (20mils)

Suggested thickness – 625 microns (25mils)

Wear and chemical exposure – 1000 microns (40mils)

PACKAGING

940 ml cartridge tube - For MeCaSpray System

1 liter / 0.26 Gal. / 1.8 Kg / 4 lb Kit

5 liter / 1.23 Gal. / 9 Kg / 19.8 lb Kit

TECHNICAL DATA

Performance / Property		Results
Hardness	ASTM D 2240	[Shore D] 82
Pull Off Adhesion	ASTM D 4541	≥5,200 psi (≥ 35 MPa)
X Cut Adhesion	ASTM D 6677	Rating 10
Abrasion Resistance	ASTM D 4060	49 mg
Flexibility	ASTM D 522	5.5" mandrel (13.5 cm)
Tensile Strength	ASTM C1275	≥ 5,800 psi (≥ 40 MPa)
Elongation		4%
Atlas Cell, 150°F (65°C) for 7 days, NACE TM0174		Pass
Impact	ASTM D 2794	9 lb/inch (0.10 Kg/m)

PHYSICAL DATA

Color	Gray
Mix Ratio	4:1 by volume
Mix Ratio	7.3:1 by weight
Sag Resistance (625 micron / 25 mils)	No Sag
Pot Life (77°F / 25°C)	60 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
Solvent Content	Zero
Odor	Slight to nil
Mixed Viscosity	62,000 mPa-s (cP)
Mixed Density	1.72 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)	3 hours
Cure Time - Handle (77°F / 25°C)	11 hours
Shelf Life	2 years

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

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