

DESCRIPTION

MeCaWear 300 is 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
 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 (20 mils)
 Suggested thickness - 625 microns (25 mils)
 Wear and chemical exposure - 1000 microns (40 mils)

PACKAGING

940 ml cartridge tube - For MeCaSpray System
 1 liter / .26 Gal. / 1.5 Kg / 3.3 lb Kit
 5 liter / 1.23 Gal. / 7.5 Kg / 16.5 lb Kit

TECHNICAL DATA

| Performance / Property | | Results |
|---|-------------|-----------------------|
| Hardness | ASTM D 2240 | [Shore D] 78 |
| Pull Off Adhesion | ASTM D 4541 | ≥ 4,931 psi (≥34 MPa) |
| X Cut Adhesion | ASTM D 6677 | Rating 10 |
| Abrasion Resistance | ASTM D 4060 | < 40 mg |
| Cathodic Disbondment, 1.5 V for 28 days | | < 12 mm |
| Flexibility | ASTM D 522 | 3" mandrel |
| Flexural Strength | ASTM D 790 | ≥ 13,488 psi |
| Elongation | | 5% |
| Atlas Cell, 122°F for 7 days NACE TM0174 | | Pass |

PHYSICAL DATA

| | |
|---------------------------------------|-------------------|
| Color | Blue |
| Mix Ratio | 4:1 by volume |
| Mix Ratio | 6.21:1 by weight |
| Sag Resistance (750 micron / 30 mils) | No Sag |
| Pot Life (77°F / 25°C) | 35 minutes |
| Low Temperature Application | 50°F (10°C) |
| Max. Re-coat Window (77°F / 25°C) | 48 hours |
| Solvent Content | Zero |
| Odor | Slight |
| Mixed Viscosity | 10,000 mPa-s (cP) |
| Mixed Density | 1.55 g/ml |
| Max. Operating Temp. - Wet Service | 120°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) | 6 hours |
| Shelf Life | 2 years |

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

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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