



# MeCaCorr 710

For Industrial Corrosion Resistance

## TECHNICAL DATA SHEET

MeCaTeC

#### DESCRIPTION

MeCaCorr 710 is fluid ceramic polymer coating. The polymer composite matrix is designed to achieve wear and chemical resistance for continuous immersion service up to 150°F (65°C). The coating chemistry provides outstanding corrosion and chemical resistance allowing it to be used in a wide variety of environments including caustic and acid service.

This 100% solid, zero VOC, solvent free coating technology offers fast return to service and excellent edge retention properties. MeCaCorr 710 is designed for application versatility, it can be applied by brush, by MeCaSpray's 2:1 cartridge spray system or through a 2:1 ratio heated plural component spray system for maximum versatility.

#### **APPLICATIONS**

| <ul> <li>Heat Exchangers</li> </ul> | •Pump Casing                  | <ul> <li>Pipelining</li> </ul>  |
|-------------------------------------|-------------------------------|---------------------------------|
| •Water Box                          | •Tube Sheet                   | •Storage Tanks                  |
| <ul> <li>Turbines</li> </ul>        | •Waste Water                  | •Concrete Containment           |
| •Sea Water                          | <ul> <li>Chemicals</li> </ul> | <ul> <li>Hydrocarbon</li> </ul> |

#### **COVERAGE DATA**

#### Theoretical coverage rate data

| Kit Weight                   | Recommended<br>Coating<br>Thickness<br>(2 coats) | Theoretical<br>Coverage Rate                 |
|------------------------------|--|--|
| 3.9 lb (1125 ml) (Cartridge) | 30 mils (762 µm)                                 | 15.9 ft² (1.48 m²)                           |
| 3.3 lb (1.5 kg)              | 30 mils (762 µm)                                 | 13.4 ft² (1.24 m²)                           |
| 16.5 lb (7.5kg)              | 30 mils (762 µm)                                 | 67.2 ft² (6.24 m²)                           |
| 155.1 lb (70.5kg)            | 30 mils (762 µm)                                 | 631.6 ft <sup>2</sup> (58.7 m <sup>2</sup> ) |

Practical Coverage = Theoretical Coverage - Waste Factor

#### **COATING DRY FILM THICKNESS**

Minimum thickness - 16 mils (406  $\mu$ m) 1 coat Suggested thickness - 30 mils (762  $\mu$ m) 2 coats -15 mils per coat High wear and chemical exposure - 40 mils (1 mm) 2 - 3 coats depending on the application method

#### **TECHNICAL DATA**

| Performance / Property                                  |            | Results                     |
|---|------------|-----------------------------|
| Hardness  | ASTM D2240 | [Shore D] 80                |
| Pull Off Adhesion                                       | ASTM D4541 | ≥6,072 psi (≥41 MPa)        |
| X Cut Adhesion  | ASTM D6677 | Rating 10                   |
| Abrasion Resistance                                     | ASTM D4060 | ≤15 mg                      |
| Cathodic Disbondment<br>1.5V for 28 days @ 175°F (80°C) |            | <8 mm (<0.32 in)            |
| Compressive Strength ASTM D694                          |            | <b>≥9,427 psi</b> (≥64 MPa) |
| Flexural Strength                                       | ASTM D790  | ≥13,488 psi (≥92 MPa)       |
| Atlas Cell, NACETM0174<br>Sea water 70°C for 28 days    |            | No change                   |
| Autoclave,<br>120°C for 7 days                          | NACETM0185 | Pass                        |

#### **PHYSICAL DATA**

| Color                             | Blue, Red, Lt Green |
|-----------------------------------|---------------------|
| Mix Ratio                         | 2:1 by volume       |
| Mix Ratio                         | 2:1 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)  | 24 hours            |
| Percent Solids                    | 100%                |
| Odor                              | Slight to nil       |
| Max. Operating Temp Wet Service   | 150°F (65°C)        |
| Max. Operating Temp Dry Service   | 212°F (100°C)       |
| Cure Time - Touch (77°F / 25°C)   | 3 hours             |
| Cure Time - Handle (77°F / 25°C)  | 10 hours            |

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

#### PACKAGING

1125 ml / 0.3 gal / 1.8 kg / 3.9 lb Cartridge Tube 1 L / 0.264 gal / 1.5 kg / 3.3 lb Kit 4.8 L / 1.3 gal / 7.5 kg / 16.5 lb Kit 44.7 L / 11.8 gal / 70.5 kg / 155.1 lb Kit

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

### YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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