

### M-CORR 100 – CHEMICAL EPOXY COATING

#### M-CORR 100 – Chemical Resistant Epoxy Coating

Is 2 pack solvent free epoxy coating with exceptionally high build capabilities. The material is tolerant to moisture and suitable for applications where surface preparation is less than perfect.

**M-CORR 100 – CHEMICAL RESISTANT EPOXY COATING** is designed for the long-term corrosion protection of steel surfaces in marine, coastal and industrial environments.

#### Typical Uses

- External coating for pumps and valves
- Marine jetties
- Internal and external pipe protection
- Tank lining and coating
- Steel work protection

Please contact us to discuss your project before purchasing this material to confirm suitability.

#### Application Guide

##### Surface Preparation - Metal - Grit Blast

- All oil and grease must be removed from the surface using an appropriate cleaner such as MEK or similar type solvent.
- All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)** minimum blast profile of 75 microns using an angular.
- Once blast cleaned the surface must be degreased and cleaned using MEK or similar type solvent.
- All surfaces must be coated before gingering or oxidation.

##### Surface Preparation - Metal - Hydro-Blast

- All surfaces must be hydro-blasted using clean water at 12,000 psi (850bar) to NACE 5 (SSPC SP13 WJ3-WJ1).
- All surfaces must be coated before gingering or oxidation occurs.

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### Surface Preparation - Metal -Manual

- All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
- All surfaces must be mechanically abraded using handheld grinders to ISO 8501/4 ST3 (SSPC SP3 ST3).
- Once abraded, the surface must be degreased and cleaned using MEK or similar type material.
- All surfaces must be repaired before gingering or oxidation occurs.

### Surface Preparation - Soluble Salts

PLEASE NOTE: Soluble salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination this process may need to be repeated several times.

### Environmental Checks

Prior to mixing, please ensure the following:

- The base component is at a temperature between 15-25°C.
- Do not apply the material when the ambient or substrate temperature is below 5°C.

### Mixing

- Transfer the contents of the Activator unit into the Base container.
- Using a low-speed electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved.
- Once mixing is complete use the mixed paste as soon possible after mixing.
- Use all mixed material within 20-25 minutes at 20°C.

### Product Application

#### Brush & Roller

- Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life).
- Stripe coat all edges, joints & corners.
- Once the stripe coat has cured and is capable of being overcoated, apply a basecoat at a minimum wet film thickness 250 microns.
- Once the basecoat has cured sufficiently, approximately 4 hours at 20°C, apply a topcoat at a minimum wet film thickness of 250 microns.



### Technical Information

Appearance	Base Activator Mixed	Highly structured thixotropic liquid Amber liquid Thixotropic liquid
Mixing Ratio	By Weight By Volume	4:1 2.4:1
Density	Base Activator Mixed	1.78 1.05 1.56
Solids Content		100%
Sag Resistance	Nil at	400 microns
Usable Life	10°C 20°C 30°C	60 minutes 30 minutes 15 minutes
Coverage	2 coat system to properly prepared surfaces at 400 microns:	4m <sup>2</sup> per ltr per coat
Cure Times at 20°C	Minimum overcoating time Maximum overcoating time Water/ sea water immersion Chemical immersion	4 hours 36 hours 3 days 5 days
Storage Life	Unopened and stored in dry conditions (15- 30°C)	5 years
Abrasion Resistance	Taber CS17 Wheels/1 Kg load	138mg loss/1000 cycles 0.22cc loss/1000 cycles

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Adhesion	Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile	194 kg/ cm <sup>2</sup> (2750 psi)
Compressive Strength	Tested to ASTM D 695	649kg/cm <sup>2</sup> (9200psi)
Impact Resistance	Tested to ASTM G14	2.0 joules
Cathodic Disbondment	Tested to ISO 21809-3:2016	28 days, 1.5v, 3% NaCl 23 °C 2.3mm 65 °C 5.1mm 95 °C 7.7mm
Corrosion Resistance	Tested to ASTM B117	5000 hours
Flexural Strength	Tested to ASTM D790	522kg/cm <sup>2</sup> (7400psi)
Hardness	Shore D to ASTM D2240	80
Heat Resistance	Suitable for use in immersed conditions at temperatures up to: Suitable for use in dry conditions at temperatures up to dependant on load:	60°C 200°C

### Chemical Resistance Guide

Brine	40 °C
Crude Oil	40 °C
De-ionised Water	30 °C
Diesel	40 °C
Hydrochloric Acid 20%	40 °C
Naphtha	40 °C
Phosphoric Acid 30%	40 °C
Sodium Hydroxide 50%	40 °C
Sulphuric acid 20%	40 °C

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It is the responsibility of the customer to determine the products suitability for use.

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