

M-CORR 500 – WATER-BASED ACRYLIC ENCAPSULATION COATING

M-CORR 500 - Water-Based Acrylic Encapsulation Coating

Is formulated to provide long-term protection to steel structures, concrete surfaces, or surfaces with existing coatings. Due to the nature of the product, it can be applied to the hydro-blasted or manually prepared surfaces and offers a typical life expectancy of in excess ten years.

Typical Uses

- Concrete structures
- Structural steel
- Storage tanks
- External pipe protection
- External tank coating
- Structural steel protection

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

Application Guide

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

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.

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Surface Preparation - Concrete Existing Concrete

- If the concrete surface is contaminated, pressure wash using clean water.
- Once the concrete is dry lightly abrasive blast or scarify taking care not to expose the aggregate.
- Clean all dust and debris from the surface and take several moisture readings and prime with M-PRIME 100 – Low Viscosity Epoxy Concrete Primer or M-PRIME 104 – Damp Tolerant Concrete Primer dependent on the moisture readings obtained.
- Apply M-PRIME 100 or M-PRIME 104 at a target wet film of 150 microns, allow to cure before overcoating.
- For very porous surfaces a second coat of primer may be required.

New Concrete

- Allow new concrete to cure for a minimum of 21 days, lightly abrasive blast or scarify to remove any surface laitance.
- Clean all dust and debris from the surface and take several moisture readings and prime with M-PRIME 100 – Low Viscosity Epoxy Concrete Primer or M-PRIME 104 – Damp Tolerant Concrete Primer dependent on the moisture readings obtained.
- Apply M-PRIME 100 or M-PRIME 104 at a target wet film of 150 microns, allow to cure before overcoating.

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

- Using a low-speed electric paddle mixer, ensure a consistent mix of acrylic emulsion is achieved.
- Once mixing is complete use the mixed paste as soon possible.
- 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.

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- Once the stripe coat has cured and is capable of being overcoated, apply a basecoat at a minimum wet film thickness 400 microns.
- Once the basecoat has cured sufficiently, approximately 30 minutes at 20°C, apply a topcoat at a minimum wet film thickness of 400 microns.

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Technical Information

Appearance	Single Component	Thixotropic acrylic emulsion
Mixing Ratio	Single Pack	Ready to use
Density		1.25
Solids Content		65%
Sag Resistance	Nil at	500 microns
Usable Life	10°C 20°C 30°C	60 minutes 30 minutes 15 minutes
Coverage	Applied at a minimum wet film thickness (in a 2-coat application)	50sqm @ 400 microns
Cure Times	Touch dry @ 20°C	30 minutes
Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Tensile Strength	ASTM 412	3.2N/ mm ² (2750 psi)
Corrosion Resistance	Tested to ASTM B117	5000 hours excellent
Corrosion Weathering	Tested to ASTM D4798	1500 hours no cracks or blistering
Elongation	Tested to ASTM D412	230%

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UV Resistance	Tested to ASTM D4587	5000 hrs unaffected
Impact Resistance	Tested to ASTM D244	110lb/ins
Heat Resistance	Suitable for use in dry conditions at temperatures up to:	90°C

Legal Notice

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control.

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

Maxkote accepts no liability arising out of the use of this information or the product described herein.

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