

M-CORR 300 – HIGH BUILD SOLVENT FREE PU COATING

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This is a high build, solvent free industrial coating formulated using the latest polyurethane coating technology. When cured the material exhibits a high degree abrasion resistance and flexibility allowing for substrate movement without cracking. Designed principally for the long-term high corrosion protection of storage tanks, structural steel, pump and valve casings, pipelines, and other steel structures.

Typical Uses

- Storage tank lining
- Structural steel
- External pipe protection
- Pump & valve protection
- External process vessel surfaces

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 -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 - Soluble Salts

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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.,

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.
- For very porous surfaces a second coat of primer may be required.

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 minutes at 20°C.

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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 350 microns.
- Once the basecoat has cured sufficiently, approximately 6 hours at 20°C, apply a topcoat at a minimum wet film thickness of 350 microns.

Technical Information

Appearance	Base: Activator: Mixed:	Highly structured thixotropic liquid Amber liquid Thixotropic liquid
Density	Base: Activator: Mixed:	1.31 1.22 1.29
Mixing Ratio	By weight: By volume:	3.25:1 3:1
Solids Content		100%
Sag Resistance	Nil at	400 microns
Usable Life	10°C 20°C 30°C	40 minutes 20 minutes 10 minutes
Coverage	Can be applied in a single coat or as a 2 coat system to properly prepared surfaces. The material should be applied at a target thickness of 350	2.85m ² per ltr per coat

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	microns per coat with a theoretical coverage rate of 2.85 ² per ltr per coat.	
Cure Times	20°C 30°C 40°C	6 hours 3 hours 90 minutes
Storage Life	Unopened and stored in dry conditions (15-30°C)	2 years
Adhesion	Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75-micron profile ASTM 412	169kg/ cm ² (2400 psi)
Impact Resistance	Tested to ASTM G14	8.6 joules
Corrosion Resistance	Tested to ASTM B117	5000 hours excellent
Compressive Strength	Tested to ASTM D695	552kg/ cm ² (7830 psi)
Flexural Strength	Tested to ASTM D790	755kg/ cm ² (10700 psi)
Hardness	Shore D to ASTM D2240	80
Heat Resistance	Suitable for use in immersed conditions at temperatures up to 70°C. Resistant to dry heat	70°C 120°C

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Chemical Resistance Guide

Chlorine (Wet)	30 ° C
Chloramine	35 ° C
Chlorine Dioxide (Wet)	35 ° C
Sodium Hypochlorite 15%	30 ° 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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