

### M-PRIME 104 – DAMP TOLERANT CONCRETE PRIMER

#### M-PRIME 104 - Damp Tolerant Concrete Primer

M-PRIME 104 – DAMP TOLERANT CONCRETE PRIMER Is a solvent-free clear epoxy primer suitable for the application to concrete surfaces with a moisture content up to 25%.

MPR 104 – penetrates deep into the concrete and has excellent bond strength. The primer is applied as a single coat in most instances, but very porous concrete may require a second coat.

Typically, the product is used to consolidate concrete before the application of other coating materials usually epoxy, polyurethane, or acrylic floor coatings.

But is also used as a bonding agent for epoxy concrete repair mortars or as a clear sealer for worn concrete to suppress any dust.

#### Typical Uses

- Concrete Floors
- Concrete Tanks & Reservoirs
- Chemical & Fuel Bunds
- Concrete Sumps Channel & Drains

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

#### Application Guide

##### Surface Preparation - Concrete

- Remove any surface contamination and lightly abrasive blast or scarify using mechanical hand tools taking care not to expose the aggregate.
- Allow new concrete to cure for a minimum 21 days and remove any surface laitance before coating.

##### Environmental Checks

Prior to mixing, please ensure the following:

- Ensure the moisture content of the concrete is below 25%.
- Suitable for applications where the surface temperature is 5°C or above

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## Mixing

- Mix the base component with the activator component in full units as supplied, ideally use slow speed paddle mixer.
- When mixing both materials, it is essential to have a uniform streak free fluid.
- Once mixed, the material should be used within 30-40 minutes at 20°C.

## Product Application

- Apply the mixed material directly to the prepared surface using a brush, roller or standard airless spray.
- Normally a single coat is enough but for very porous surface an additional coat may be required.

## Technical Information

Appearance	Base	Clear pale yellow liquid
	Activator	Amber liquid
	Mixed	Pale amber liquid
Mixing Ratio	By Weight	1.65:1
	By Volume	3:2
Density	Base	1.15
	Activator	1.02
	Mixed	1.08
Solids Content		100%
Sag Resistance	Nil at	150 microns
Usable Life	10°C	90 minutes
	20°C	45 minutes
	30°C	22.5 minutes
Coverage	At 150 microns the theoretical coverage rate is	6.66m <sup>2</sup> per ltr
Cure Times at 20°C	Minimum overcoating time	8 hours
	Maximum overcoating time	36 hours

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Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Pull off adhesion	Elcometer pull off adhesion tester	Dry 525psi 37kg/cm <sup>2</sup> (cohesive in substrate) Wet 475psi 33.4 kg/cm <sup>2</sup> (cohesive in substrate)
Compressive Strength	Tested to ASTM D 695	629kg/cm <sup>2</sup> (8945psi)
Flexural Strength	Tested to ASTM D790	371kg/cm <sup>2</sup> (5275psi)
Hardness	Shore D to ASTM D2240	84
Tensile Shear	Tested to ASTM D1002	On abrasive blasted mild steel with 75-micron profile – 201 kg/cm <sup>2</sup> (2860 psi)  On rusted steel – 167 kg/cm <sup>2</sup> (2375 psi)
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

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### Legal Notice

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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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