

**MAXCHEM 300 – CHEMICAL RESISTANT EPOXY NOVOLAC COATING**
**Description**

**MAXCHEM 300 – CHEMICAL RESISTANT EPOXY NOVOLAC COATING** is a high-build, solvent free coating and lining system. The product is designed for the long-term chemical protection of steel and concrete substrates.

Once cured the material is capable of withstanding temperatures up to 60°C continuous immersion, dependent on chemical contact.

**MAXCHEM 300 – CHEMICAL RESISTANT EPOXY NOVOLAC COATING** is proven to protect against Sulfuric acid 98%, Hydrochloric 36%, Phosphoric 75% and Hydrobromic 40%.

The material is supplied as a 2-component product (**PART A & PART B**), that requires mixing before use, once mixed the product can be applied directly to prepared metal surfaces by brush, squeegee or plastic applicator.

## Material Properties

Appearance	Base Activator Mixed	Grey paste Amber fluid Grey Liquid
Mixing Ratio	By Weight By Volume	4:1 3:1
Density	Base Activator Mixed	1.41 1.02 1.32
Solids Content		100%
Sag Resistance	Nil at	500 microns
Usable Life	10°C 20°C 30°C	50 minutes 30 minutes 15 minutes
Theoretical Coverage	To be applied at minimum target film thickness of 250 microns per coat	4 sqm/ltr

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Cure Times	Movement without load or immersion: Light loading: Full loading/water immersion: Chemical Contact:	6 Hours 12 hours 4 days 7 days
Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Adhesion	Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75-micron profile	208kg/cm <sup>2</sup> 2950psi
Compressive Strength	Tested to ASTM D 695	984kg/cm <sup>2</sup> 13,950psi
Corrosion Resistance	Tested to ASTM B117	5000 hours
Flexural Strength	Tested to ASTM D790	871kg/cm <sup>2</sup> 12,300ps
Hardness	Shore D to ASTM D2240	20°C 85 100°C 50
Heat Distortion	Tested to ASTM D648 at 264psi fibre stress	20°C Cure 52°C 100°C Cure 75°C
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	MAXCHEM 300 offers excellent resistance to the following chemicals when tested at 20°C:	Chromic 10% Hydrobromic 40% Hydrochloric 36% Nitric 10% Nitrous 10% Phosphoric 75% Sulphuric 98% Organic Acids Acetic 10% Carbonic 30% Citric 30% Folic 20% Formic 10% Lactic 10%

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	<p>Ammonium hydroxide 30%</p> <p>Potassium hydroxide 20%</p> <p>Sodium hydroxide 40%</p> <p>Sodium Bisulfate 40%</p> <p>Butanol 100%</p> <p>Ethanol 100%</p> <p>Ethylene glycol 100%</p> <p>Hexanol 100%</p> <p>Propylene glycol 100%</p> <p>Aniline 100%</p> <p>Diethanolamine 100%</p> <p>Hydrazine 100%</p> <p>Methylamine 40%</p> <p>Cyclohexane 100%</p> <p>Hexane 100%</p> <p>Octane 100%</p> <p>Benzene 100%</p> <p>Naphtha 100%</p> <p>Toluene 100%</p> <p>Xylene 100%</p>
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**Health and Safety**

Please ensure good practice is always observed during the mixing and application of this product.

Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

**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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