

MAXLINE 100 – POTABLE WATER COATING

Description	<p>MAXLINE 100 – POTABLE WATER COATING is a high build solvent free polyurethane anti-corrosive coating designed for the efficient long-term protection of water tanks, pipelines, pipe fittings and equipment. MAXLINE 100 – POTABLE WATER COATING also meets the requirements of BS 6920:1990 as required by the Water Research Centre</p> <p>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.</p>
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Material Properties

Appearance	Base Activator Mixed	Blue or light grey thixotropic liquid Amber liquid Blue or light grey Thixotropic liquid
Mixing Ratio	By Weight By Volume	3.25:1 3:1
Density	Base Activator Mixed	1.31 1.22 1.29
Solids Content		100%
Sag Resistance	Brush grade: Nil at	Nil at: 750 microns
Usable Life	10°C 20°C 30°C	25-35 minutes 15-20 minutes 8-10 minutes
Coverage	The material should be applied by target thickness of 500 microns per coat	2 sqm/ ltr

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Cure Times	Movement without load or immersion: Light loading: Full loading/water immersion: Chemical Contact:	2 hours 8 hours 3 days 14 days
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	169kg/cm ² 2400psi
Cathodic Disbondment	(British Gas CW6 and FW0028 Draft methods)	Pass
Corrosion Resistance	Tested to ASTM B117	5000 hours
Flexibility	(British Gas FW0028 Draft method) 3% Strain at 20°C – PASS 3% Strain at 5°C – PASS 3% Strain at 0°C ASTM D522	Pass Pass Pass Pass
Hardness	Shore D to ASTM D2240	80
Water Resistance	(British Gas CW6 and FW0028 Draft methods)	Pass at 50°C
Impact Resistance	(British Gas CW6) 15 Joules (BS EN 10290)	23°C 8.6 Joules 5°C 6.1 Joules
Adhesion – Resistance to Removal	(BS EN 10290)	23°C rating 1 60°C rating 2

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Adhesion – Pull Off Test	(BS EN 10290)	23°C 175kg/ cm ² 60°C 73kg/ cm ² (ASTM D4541) 214kg/ cm ²
Adhesion – Immersion in Tap Water	(BS EN 10290)	Rating 3
Electrical Insulation Resistance	(BS EN 10290)	8.4 X 10 ⁹
Indentation Resistance	(BS EN 10290)	23°C 0.1mm 60°C approx. 15%
Flexibility	(BS EN 10290)	Pass
Elongation	(BS EN 10290)	14.5%
Abrasion Resistance	(ASTM D4060)	90mgm weight loss per 1000 cycles 1kg load – CS17 wheel
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:	70°C 120°C
Chemical Resistance	At 20°C product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media	Acetic Acid 10% Benzoic Acid 15% Caster Oil Cyclohexane Ethyl Alcohol 50% Formic Acid 10% Fuel Oil Glycerine

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Hydrochloric Acid 20%
 Isopropanol
 Lactic Acid 20%
 Mineral Oil
 Nitric Acid 10%
 Phosphoric Acid 50%
 Potassium Hydroxide 10%
 Sodium Carbonate 10%
 Sodium Hydroxide 10%
 Sulphuric Acid 50%
 White Spirit

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.