

### MAXLINE 100 – POTABLE WATER COATING

#### MAXLINE 100 - Potable Water Coating

MAXLINE 100 – Potable Water Coating is a WRAS approved solvent-free polyurethane coating system. Specifically designed for relining potable and drinking water tanks and provides excellent protection against erosion and corrosion.

Once cured the product is extremely flexible and will breathe with the tank as it cycles from full to empty without any risk of cracking.

Maxline 100 will have a design life more than 10 years. We offer a full application service through our network of approved 3rd party contractors, please do not hesitate to contact us for further details.



#### Typical Uses

- Coating for Drinking Water Tanks
- Lining for GRP Water Tanks
- Lining for Sectional Steel Tanks
- Used as a lining for Galvanised Steel Water Tanks
- Coating for Concrete Water Tanks & Reservoirs
- Lining for Braithwaite Tanks
- As an internal Lining for Pipelines
- Corrosion protection for Cooling Towers
- As a Lining for Potable Water Pumps

#### Application Guide

##### Surface Preparation - 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.

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## Surface Preparation - Manual

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- 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.

## 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 10°C or less than 3°C above dew point.

## Mixing

- Transfer the contents of the Activator unit into the Base container.
- Using a slow speed electric paddle mixer, mix the 2 components together until the material is streak free.
- Once mixing is complete, use the mixed coating as soon possible after mixing.

Use all mixed material within 15 minutes at 20°C.

## Product Application

- Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life)
- Using a 50mm synthetic brush, stripe coat all edges, joints & corners.
- Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the **basecoat** to all surfaces at minimum 400 microns.
- Once the basecoat of material has cured sufficiently, approximately 6-8 hours at 20°C, apply the **topcoat** to all surfaces at a minimum 400 microns.

Minimum finished coating thickness needs to be in excess of 800 microns.

## Technical Information

Appearance

Base  
Activator  
Mixed

Blue or light grey  
thixotropic liquid  
Amber liquid

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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		Nil at: 400microns
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 350 microns per coat	2.85 sqm/ ltr
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 <sup>2</sup> 2400psi
Corrosion Resistance	Tested to ASTM B117	5000 hours
Flexibility	(British Gas FW0028 Draft method) 3% Strain at 20°C	Pass Pass

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	3% Strain at 5°C	Pass
	3% Strain at 0°C ASTM D522	Pass
Hardness	Shore D to ASTM D2240	80
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
Adhesion – Pull Off Test	(BS EN 10290)	23°C 175kg/ cm <sup>2</sup> 60°C 73kg/ cm <sup>2</sup>  (ASTM D4541) 214kg/ cm <sup>2</sup>
Electrical Insulation Resistance	(BS EN 10290)	8.4 X 10 <sup>9</sup>
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

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Chemical Resistance	At 20°C product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media	Acetic Acid 10% Benzoic Acid 15% Caster Oil Cyclohexane Ethyl Alcohol 50% Formic Acid 10% Fuel Oil Glycerine 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
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### 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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