

MAXPRIME 200MS – METAL SURFACE PRIMER

Description	MAXPRIME 200MS – METAL SURFACE PRIMER is an aluminium based epoxy primer with a very high solids content. And when applied as a two-coat system provides corrosion resistance in excess of 10,000 hours when tested to ASTM B117 MPR 200MS – Metal Surface Primer is Surface Tolerant. And can be applied to surfaces where standard preparation techniques such as grit-blasting is not possible. In these circumstances' hydro-blasting or mechanical hand tools will be acceptable. MPR 200MS – is designed to provide long-term corrosion protection for steel structures and can applied by brush, roller or standard airless spray. And can be used as a base coating in conjunction with a wide range of epoxy, polyurethane coatings and UV stable topcoats. The material is highly resistant to marine and industrial environments, buried conditions, effluents, salt water, oils and a wide range of industrial chemical.
Applications	• Storage tanks • Structural Steel • Pipelines • Marine & Industrial Equipment
Surface Preparation	All oil and grease must be removed from the surface using an appropriate cleaner such as MEK or similar quick flashing solvent. GRIT-BLASTING - All surfaces must be abrasive blasted to ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2) with a minimum blast profile of 75 microns (3mil) using an angular abrasive. HYDRO-BLAST - All surfaces must be hydro-blasted using clean water at 12,000 psi (850bar) to NACE 5 (SSPC SP13 WJ3-WJ1). MECHANICAL - Abrade using handheld grinders or needle guns to ISO 8501/4 ST3 (SSPC SP3 ST3).

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SURFACE PREPARATION – CONTUNUED

Once surface all preparation is completed, degrease again and ensure the coating is applied before oxidisation occurs.

Mixing

Prior to mixing please ensure the base component is at a temperature between of between 15-25°C and ambient & surface temperature is above 5°C.

Empty the contents of the Activator unit into the Base container and using a paddle mixer, mix the 2 components together until a uniform streak material is achieved.

From the commencement of mixing the whole of the material should be used within 2 hours at 20°C.

Mixing Ratio By weight: 4.5:1 By volume: 4:1

Application

Pour the mixed material into a paint kettles or paint tray (to extend usable life). Stripe coat all edges, joints, seams and corners at a minimum wet film thickness 150 microns and allow to cure for approximately 6 hours at 20°C before the application of the base coat.

Application Methods: Brush, Roller or Standard Airless Spray

BASE COAT – Apply a base coat of MPR 200MS at a minimum wet film thickness of 150 microns. Allow to cure for approximately 6 hours at 20°C before the application of the topcoat.

TOP COAT – Apply the top coat of MPR 200MS at a minimum wet film thickness of 150 microns.

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Coverage	1ltr of mixed product applied at a wet film thickness of 150 microns has a theoretical coverage rate 6.6 sqm. Taking surface preparation and profile in to consideration a target practical coverage of between 4.0 - 5.0 sqm per ltr should be achieved.
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Over-Coat Times	Minimum – the applied material can be over-coated as soon as it is hard dry approximately 6 hours. Maximum – over-coating time 36 hours. Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded and solvent washed to remove any surface contamination
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Pot Life @ 20°C	2 hours
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Properties	- Adhesion - Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75-micron profile 195 kg/ cm² (2770 psi) - Salt Fog Resistance - Tested to ASTM B117 Unaffected after 10,000 hrs - Corrosion Resistance - Tested to ASTM B117 Unaffected after 5000 hours - Humidity Resistance Tested to BS3900 Part F2 Unaffected after 5000 hours - Hardness Shore D to ASTM D2240 80 - Heat Resistance Suitable for use in immersed conditions at temperatures up to 40°C. Resistant to dry heat up to 120°C dependent on load.
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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.
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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.