

RESICHEM 509 MCU 125 – single component moisture cured primer

Resichem 509 MCU 125 is a solvent based urethane primer (single component). The primer is a moisture cured coating ideal for priming previously coated and metallic surfaces. The coating is compatible with any of the Resimac polyurethane based chemical & corrosion coatings and the UV stable top coat products.

- Single component
- Moisture cured
- Excellent adhesion to metallic surfaces

Typical applications

Steel structures

Metal stairways

Tank external surfaces

Surface Preparation

Metallic Substrates – Mechanical abrasion

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be mechanically abraded using handheld grinders to **ISO 8501/4 ST3 (SSPC SP3 ST3)**.
3. Once abraded, the surface must be degreased and cleaned using MEK or similar type material.
4. All surfaces must be coated before gingering or oxidation occurs.

Metallic Substrates – Hydro-blasting

1. All surfaces must be hydro-blasted using clean water at 12,000 psi (850bar) to **NACE 5 (SSPC SP13 WJ3-WJ1)**.
2. All surfaces must be coated before gingering or oxidation occurs

Metallic Substrates – Abrasive blast cleaning

1. All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
2. All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)** minimum blast profile of 75 microns (3mil) using an angular abrasive.
3. Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material.
4. All surfaces must be coated before gingering or oxidation occurs.

PLEASE NOTE: For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.

Mixing

Prior to mixing please ensure the following:

1. The product is at a temperature between 15-25°C (60-77°F).
2. The ambient & surface temperature is above 10°C (50°F).

Once these 2 checks have been met, please proceed with mixing the product.

1. Using an electric paddle mixer agitate the single component coating.

Application

Brush or roller applications

1. Using a 50mm (2") wide synthetic brush, stripe coat all edges, joints, corners and equipment with the mixed material. The stripe coat must be approximately 100mm (4") wide, at 100 microns (4mil) wet film thickness.
2. Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the mixed product to all surfaces at 100 microns (4mil) wet film thickness.

Spray Applications

1. Spray application should be carried out by airless spray using a 45:1 ratio pump.
2. Spray pressure of 2500psi and a tip size of 11-13 thou should be used.
3. Apply the mixed product to all surfaces at 100 microns (4mil) wet film thickness.

Coverage Rates

5ltrs (1.3 US gallon) of fully mixed product will give the following coverage rates –
50m² at 100 microns 538ft² at 4mil

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Cure Times

At 20°C (68°F) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

| | |
|--------------------------|----------|
| Touch dry | 2 hours |
| Minimum overcoating time | 4 hours |
| Maximum overcoating time | 24 hours |

Pack Sizes

This product is available in the following pack sizes –
5ltrs (1.3 US Gallon)

Colour

Single component – Grey

Over-coating times

Minimum - the material can be over-coated after approximately 4 hours at 20°C (68°F).

Maximum - the over-coating time should not exceed 24 hours.

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

Storage Life

2 years if unopened and store in normal dry conditions (15-30°C/ 60-86°F°)

Other Technical Documents

Safety Data Sheets - single component

Health and Safety

Please ensure good practice is observed at all times. Protective gloves, goggles & a disposable coverall must be worn during the mixing and application of this product. Before mixing and applying the material ensure you have read the fully detailed 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 if the product is suitable for use. Resimac accepts no liability arising out of the use of this information or the product described herein.