

510 MCU

Single component, moisture cured urethane primer with extended 7-day overcoating window. Fast drying and corrosion resistant for steel and coated surfaces.

- Single component metal primer with moisture cure technology
- 7-day overcoating window for phased or large scale projects
- Fast drying and corrosion resistant
- Zinc-rich formulation for added substrate protection

2025 Product Sheet

Typical Applications

510 MCU is a single component, moisture cured urethane primer formulated for steel and previously coated surfaces. It provides excellent adhesion, fast drying, and long term corrosion protection, with a 7-day overcoating window at 20°C (68°F) Ideal for large scale or phased applications where extended working time is critical.

- Steel structures
 - Marine decks
- Tank externals
 - Metal stairways

Cure times

Min overcoating time		Max overcoating time		Full Cure	
10°C/50°F	8 hours	10°C/50°F	7 days	10°C/50°F	7 days
20°C/68°F	4 hours	20°C/68°F	7 days	20°C/68°F	7 days
30°C/86°F	2 hours	30°C/86°F	5 days	30°C/86°F	5 days
40°C/104°F	2 hours	40°C/104°F	3 days	40°C/104°F	3 days

Characteristics

Appearance

Red

Solids Content

75%

Volume Capacity

770cc/kg

Sag Resistance

nil at 150 microns

Density

Mixed 1.3

Storage Life

2 years if unopened and stored in normal dry conditions

15-30°C (59-86°F)

Pack Sizes

This product is available in the following pack sizes:

5ltrs (1.3 US gallon)

Coverage

5ltrs (1.3 US gallon) of fully mixed product will give the following coverage rates

50m² at 100 microns 538t² at 4mil

Details & Legal

Quality

All Resimac Products are supplied under the scope of the company's fully documented quality system.

Warranty

Resimac warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in this document.

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

Application Guide

A. Surface Preparation

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 50 microns (2 mil) using an angular abrasive.
- 3 Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material.
- 4 surfaces must be coated before gingering or oxidation occurs.

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.

Health & Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product.

Before mixing and applying the material, please ensure you have read and fully understood all information.

Metallic Substrates: Hydro-blasting

- 1 All surfaces must be hydro-blasted using clean water at 12,000 psi (850bar) to NACE 5 (SSPC SPI3 WJ3-WJ1).
- 2 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.

B. Product Preparation

Brush or roller applications:

- 1 Using a 50mm (2") wide synthetic brush, stripe coat all edges, joints, corners and equipment with the mixed material.
- 2 The stripe coat must be approximately 100mm (4") wide, at 100 microns (4mil) wet film thickness.
- 3 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.

B. Product Preparation

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).

C. Mixing

Mix the complete unit of material (5ltrs):

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

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.

Quick Application Guide



Step 1

Ensure you have:

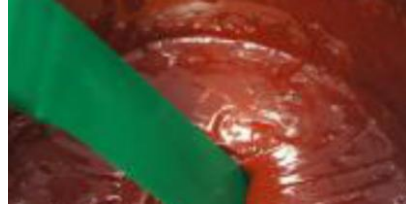
1 x 5ltr unit

1 x spatula

1 x slow speed drill & paddle

1 x brush

1 x short pile roller & tray



Step 2

Mix the contents with the drill and paddle until uniform and streak free. Transfer to suitable container or roller tray.



Step 3

Brush or roll the coating onto the substrate at the correct WFT 100 microns, check with wet film thickness gauges.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

Legal Notice

The data contained within this Product Specification 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. Resimac accepts no liability arising out of the use of this information or the product described herein.

Information & Enquiries

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