

## RESICHEM 506 ALUPRIME

**Resichem 506 Aluprime** is a solvent based epoxy anti-corrosive coating designed for the long term protection of steel and concrete structures against weathering and environmental corrosion. Operating temperature ranges from  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ . The material is surface tolerant and can be applied to wide range of manually, mechanically and abrasive blast cleaned surfaces. The two component product is highly resistant to marine and industrial environments.

### Typical applications

Structural steel, pipelines, tanks, sheet and bearing piles and other land and marine structures.

### Characteristics

#### Appearance

Base:	Pigmented liquid
Activator:	Amber liquid
Mixed:	Low viscosity pigmented liquid

#### Mixing Ratio

By weight:	4.5:1
By volume:	4:1

#### Density

Base:	1.15
Activator:	1.02
Mixed:	1.12

#### Solids content

80%

#### Sag Resistance

Nil at 150 microns

#### Useable Life

$10^{\circ}\text{C}$	4 hrs
$20^{\circ}\text{C}$	2 hrs
$30^{\circ}\text{C}$	1 hr

#### Coverage

The material should be applied by brush or roller in two coats at a target thickness of 150 microns per coat using a practical coverage rate of 5.4 sq metres per litre per coat.

The practical coverage rate for spraying is 5 sq metres per litre for a 150 micron coating.

#### Cure Times

At  $20^{\circ}\text{C}$  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:

Movement without load or immersion	8 hours
Light loading	16 hours
Full loading/water immersion	3 days
Chemical Contact	5 days

#### Storage life

5 years if unopened and stored in normal dry conditions ( $15-30^{\circ}\text{C}$ )

### Mechanical Properties

#### Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile

195 kg/  $\text{cm}^2$  (2770 psi)

#### Salt Fog Resistance

Tested to ASTM B117

Unaffected after 10,000 hours

#### Corrosion Resistance

Tested to ASTM B117

Minimum 5000 hours

#### Humidity Resistance

Tested to BS3900 Part F2

Unaffected 5000 hours

#### Heat Resistance

Suitable for use in immersed conditions at temperatures up to  $40^{\circ}\text{C}$ . Resistant to dry heat up to  $130^{\circ}\text{C}$  dependent on load.

### Chemical Resistance

The product resists attack by a wide variety of low concentration industrial chemicals including:

- Aluminium Sulphate
- Ammonium Nitrate
- Brine
- Calcium Sulphate
- Crude Oil Sweet
- Dilute mineral acids
- Ethylene Glycol
- Ferric Chloride
- Hydraulic Oil
- Lubricating Oil
- Natural Gas
- Sodium Carbonate
- Sodium Hydroxide
- Wax
- Zinc Chloride

For more detailed information refer to the Resimac Technical Centre for advice.

## 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 the Technical Data Sheet for the material.

## Health and 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 the detailed Material Safety Data Sheet

**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.