# RESICHEM 506 ALUPRIME

**Resichem 506 Aluprime** is a solvent based epoxy coating designed for the long term protection of steel and concrete structures against corrosion. The coating can be applied to mechanical or abrasive blast clean surfaces and will cure at temperatures as low as 5˚C.

## Typical applications

Pipelines, internal & external tank surfaces, sheet and bearing piles, structural steel, process equipment.

## Characteristics

### *Appearance*

| | |
|---|---|
| Base: | Thin film liquid |
| Activator: | Amber liquid |
| Mixed: | Grey solvent based liquid |

### *Mixing Ratio*

| | |
|---|---|
| By weight: | 4.5:1 |
| By volume: | 4:1 |

### *Density*

| | |
|---|---|
| Base: | 1.15 |
| Activator: | 1.02 |
| Mixed: | 1.12 |

### *Solids content*

85%

### *Sag Resistance*

Nil at 150 microns

### *Coverage*

Resichem 506 Aluprime can be applied in a single coat or as a 2 coat system to properly prepared surfaces.

**Brush, roller or spray applications:**

The material should be applied at a target thickness of 150 microns per coat. WFT or 127.50 micron DFT

At 150 microns (Resichem 506 Aluprime) will have a theoretical coverage rate of 6.66m² per ltr per coat.

### *Cure Times*

The applied material should be allowed to harden for the times indicated below before being subjected to the conditions indicated:

**Usable life**

| | |
|---|---|
| 10°C | 4 hours |
| 20°C | 2 hours |
| 30°C | 60 minutes |
| 40˚C | 30 minutes |

**Minimum overcoating time**

| | |
|---|---|
| 10°C | 12 hours |
| 20°C | 6 hours |
| 30°C | 3 hours |
| 40˚C | 90 minutes |

**Maximum overcoating time**

| | |
|---|---|
| 10°C | 72 hours |
| 20°C | 36 hours |
| 30°C | 18 hours |
| 40˚C | 9 hours |

**Maximum overcoating time**
**With 506 Aluprime or 508 UVPU**

| | |
|---|---|
| 10°C | 5 days |
| 20°C | 72 hours |
| 30°C | 36 hours |
| 40˚C | 18 hours |

### *Storage life*

5 years if unopened and stored in normal dry conditions (15-30°C)

## Mechanical 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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# Product Specification

## Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media including:

| *Typical Chemicals* | *Maximum Temperature* |
|---|---|
| *Brine* | 40˚C |
| *Crude Oil* | 40˚C |
| *Diesel* | 40˚C |
| *Hydrochloric Acid 10%* | 40˚C |
| *Naphtha* | 40˚C |
| *Phosphoric Acid 25%* | 40˚C |
| *Sodium Hydroxide 35%* | 40˚C |
| *Sulphuric acid 20%* | 40˚C |

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



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