Product Specification

resimac Ltd. in partnership with TANK RELINE

RESICHEM 507 DWPU

Resichem 507 DWP is a high build solvent-free urethane anti-corrosive coating designed for the efficient long term protection of pumps, valves, pipe fittings and equipment. Resichem DWPU also meets the requirements of BS6920:1990 as required by the Water Research Centre.

Typical applications

Pumps, valves, pipe work, pipe fittings, steel and concrete structures.

Characteristics

Appearance

Base:	Various coloured thixotropic liquid
Activator:	Amber liquid
Mixed:	Various coloured thixotropic liquid

Mixing Ratio

By weight: 3.25:1
By volume: 3:1

Density

Base: 1.31
Activator: 1.22
Mixed: 1.29

Solids content

100%

Sag Resistance

Nil at 750 microns

Useable Life

10°C	25-35 minutes
20°C	15-20 minutes
30°C	8-10 minutes

Coverage

The material should be applied by brush or roller in two coats at a target thickness of 500 microns per coat using a practical coverage rate of 1.7 sq metres per litre per coat.

The practical coverage rate for spraying is 1.5 sq metres per litre for a 500 micron coating.

Cure Times

At 20°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	2 hours
Light loading	8 hours
Full loading or water immersion	3 days
Chemical Contact	14 days

Storage life

2 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

169 kg/ cm² (2400 psi)

Cathodic Disbondment

(British Gas CW6 and FW0028 Draft methods)

Pass

Corrosion Resistance

Tested to ASTM B117

Minimum 5000 hours

Flexibility

(British Gas FW0028 Draft method)

3% Strain at 20°C - PASS
3% Strain at 5°C - PASS
3% Strain at 0°C - PASS

Hardness

Shore D to ASTM ASTM D2240

80

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 70°C. Resistant to dry heat down to minus 20°C and up to 120°C dependant on load.

Impact Resistance

(British Gas CW6)

15 Joules

Water Resistance

(British Gas CW6 and FW0028 Draft methods)

Pass at 50°C

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Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media.

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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