

# Product Specification

## UPS 505 DWPU

**UPS 505 DWPU** is a high build solvent-free urethane anti-corrosive coating designed for the efficient long term protection of pumps, valves, pipe fittings and equipment. **UPS 505 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/ cm<sup>2</sup> (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, alkalis, salts and organic media.

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

## Quality

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

## Warranty

UPS 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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