

## 209 EIP PU

**209 EIP PU** is a high build solvent-free urethane extreme impact and abrasion resistant coating designed for the efficient long term protection of pumps, valves, pipes, chutes, hoppers and equipment.

### Typical applications

Pumps, valves, pipe work, pipe fittings, chutes, hoppers, agitators, vessels and tanks

### 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 500 microns

#### Useable Life

10°C	30-40 minutes
20°C	15-20 minutes
30°C	8-10 minutes

#### Coverage

The material should be applied by target thickness of - 500 microns  
(Minimum 3 coat system to give nominal 1500 microns DFT)

#### 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	4 hours
Full loading or water immersion	3 days
Chemical Contact	7 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  
200 kg/ cm<sup>2</sup> (2850 psi)

#### Corrosion Resistance

Tested to ASTM B117  
Minimum 5000 hours

#### Compressive strength

Tested to ASTM D 695  
476kg/cm<sup>2</sup> (6750psi)

#### Hardness

Shore D to ASTM D2240  
**80**

#### Heat Resistance

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

#### Impact Resistance

BS EN 10290  
23°C 8.6 Joules  
5°C 6.1 Joules

#### Adhesion - Resistance to Removal

BS EN 10290  
23°C rating 1  
60°C rating 2

#### Adhesion - Pull Off Test

BS EN 10290  
23°C 175kg/ cm<sup>2</sup>  
60°C 73kg/ cm<sup>2</sup>

ASTM D4541  
214kg/ cm<sup>2</sup>

#### Elongation

BS EN 10290  
14.5%

#### Abrasion Resistance

ASTM D4060  
90mgm weight loss per 1000 cycles - 1kg load - CS17 wheel

## 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.