Product Specification

209 EIP PU

Resimac 209 EIP PU is a flexible high build solvent-free polyurethane coating designed for application to surfaces subject to extreme impact, wear and abrasion from slurries and aggregates.

Typical applications

Chutes, Hoppers, Pumps, Valves, Pipe work

Characteristics

Appearance

Base: Light Grey or Blue
Activator: Amber liquid
Mixed: Light Grey or Blue

Mixing Ratio

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

Density

Base: 1.31
Activator: 1.22
Mixed: 1.29

Volume Capacity

1000cc/Kg

Solids content

100%

Sag Resistance

Nil at 400 microns

Coverage

1ltr (0.3 US gallon) of fully mixed product will give the following coverage rates –
2.5m² at 400 microns
26.88ft² at 16mil

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

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 40 minutes
20°C 20 minutes
30°C 10 minutes
40˚C 5 minutes

Minimum overcoating time

10°C 12 hours
20°C 6 hours
30°C 3 hours
40˚C 1.5 hours

Maximum overcoating time

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

Full Cure

10°C 14 days
20°C 7 days
30°C 3.5 days
40˚C 1.75 hours

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 dry mild steel with 75 micron profile
200kg/ cm² (2850psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
614kg/cm² (8710psi)

Impact Resistance

Tested to ASTM D256
32J/m

Hardness

Shore D to ASTM D2240
20°C 80

Adhesion – Pull off test

Tested to BS EN 10290
175kg/cm² (2480psi)

Elongation

Tested to BS EN 10290
14.5%

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 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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