

208 CERAMIC UW

Resimac 208 Ceramic UW is a flexible high build solvent-free epoxy coating designed for application to wet or underwater surfaces. The ceramic enhanced product provides long term protection of steel and concrete structures against corrosion, abrasion and chemical attack. The product cures at 5°C (41°F) and is applied in a single coat at 750 microns to 1mm (40mil) thickness

Typical applications

Subsea structures, pipelines, risers, splash zones, sheet and bearing piles, other land and marine structures

Characteristics

Appearance

Base: Dark Grey
Activator: Amber liquid
Mixed: Dark Grey liquid

Mixing Ratio

By weight: 5.6:1
By volume: 4:1

Density

Base: 1.40
Activator: 0.99
Mixed: 1.32

Volume Capacity

649cc/Kg

Solids content

100%

Sag Resistance

Nil at 1000 microns

Coverage

4ltr (1.05 US gallons) of fully mixed product will give the following coverage rates –

5.333m² at 750 microns

57.28ft² at 30mil

4m² at 1000 microns

43ft² at 40mil

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 90 minutes
20°C 45 minutes
30°C 22.5 minutes
40°C 11 minutes

Touch dry

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

Hard dry

10°C 24 hours
20°C 12 hours
30°C 6 hours
40°C 3 hours

Full Cure

10°C 6 days
20°C 3 days
30°C 1.5 days
40°C 18 hours

Storage life

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

Mechanical Properties

Abrasion Resistance

Taber CS17 Wheels/1 Kg load
38mm³ loss/1000 cycles

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted dry mild steel with 75 micron profile
184kg/ cm² (2610psi)

Tensile Shear to ASTM D1002 on abrasive blasted wet mild steel with 75 micron profile
176kg/ cm² (2500psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 1000 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

Approvals

Approved by BUREAU VERITAS for Surface Protection and Cold Repair Products applied to Marine Vessels.

Certificate No: 55258/AO BV
Expiry: 24th March 2024

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

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.