



204 UHD Paste

Solvent free, high build ceramic epoxy paste for protecting surfaces against extreme impact and sliding abrasion from aggregates and wet slurries.

- Resists extreme sliding abrasion and impact
- Suitable for medium to large aggregate and slurry flow
- High build application up to 10mm without slumping
- Solvent free with ceramic bead reinforcement

2025 Product Sheet

Typical Applications

204 UHD Paste is a two component, solvent free epoxy paste formulated with ceramic beads and an energy absorbing resin system to withstand extreme sliding abrasion and impact. Developed for demanding environments, it is designed to handle medium to large aggregate flow and wet slurry exposure.

- Slurry pumps
 - Bins & hoppers
 - Fan blades & housings
 - Internal pipe surfaces
 - Wear plates
- Pipe elbows
 - Chutes
 - Transport screws
 - Pulverisers
 - Ceramic tile lined chutes

Cure times

Usable Life		Min overcoating time		Max overcoating time		Full Cure	
10°C/50°F	100 mins	10°C/50°F	12 hours	10°C/50°F	24 hours	10°C/50°F	8 days
20°C/68°F	50 mins	20°C/68°F	6 hours	20°C/68°F	12 hours	20°C/68°F	4 days
30°C/86°F	25 mins	30°C/86°F	3 hours	30°C/86°F	6 hours	30°C/86°F	2 days
40°C/104°F	12.5 mins	40°C/104°F	1.5 hours	40°C/104°F	3 hours	40°C/104°F	24 hours

Characteristics

Appearance

Base	Mid grey paste
Activator	Black paste
Mixed	Mid grey paste

Solids Content

100%

Volume Capacity

420cc/kg

Sag Resistance

Nil at 20mm

Density

Base	2.40
Activator	2.29
Mixed	2.37

Mixing Ratio

By weight	2.12:1
By volume	2:1

Storage Life

2 years if unopened and stored in normal dry conditions, 15–30°C (59–86°F)

Coverage

5kg (11lb) of fully mixed product will give the following coverage rates

0.73m² at 3mm	7.848ft² at 120mil
0.37m² at 6mm	3.978ft² at ¼"

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

Mechanical Properties

Abrasion Resistance

Taber H10 Wheels/1kg load
29mm³ loss/1000 cycles

Compressive Strength

Tested to ASTM D695
790kg/cm² (11150psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 1000 hours

Flexural Strength

Tested to ASTM D790
415kg/cm² (5860psi)

Impact Resistance

Tested to ASTM D256 66J/m

Adhesion

Tensile Shear to ASTM D1002 on
abrasive blasted mild steel with
75 micron profile 236kg/cm² (3330psi)

Pull off Adhesion to ASTM D4541 on
abrasive blasted mild steel with
75 micron profile 258kg/cm² (3645psi)

Heat Resistance

Full immersion resistance
Tested water/hydrocarbon
immersion to 60°C (140°F)
Pass (no blisters)

Dry heat resistance

Tested to ASTM D2485
Pass 120°C (248°F)

Details & Legal

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.

Pack Sizes

This product is available in the following pack sizes:
5kg (11lbs)

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 this document.

Application Guide

A. Surface Preparation

Metallic Substrates: Abrasive blast cleaning

- 1 All oil and grease must be removed from the surface using an appropriate cleaner such as MEK.
- 2 All surfaces must be abrasive blasted to ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2) minimum blast profile of 75 microns (3mil) using an angular abrasive.
- 3 Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material.
- 4 All surfaces must be coated before gingering or oxidation occurs.

B. Product Preparation

Prior to mixing, please ensure the following:

- 1 The base component is at a temperature between 15–25°C (60–77°F).
- 2 The ambient & surface temperature is above 10°C (50°F).

PLEASE NOTE: For salt contaminated surfaces the substrate must be pressure washed with clean water and checked for salt contamination, please refer to the surface preparation and pre-application guide for further information.

Health & 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 all information.

C. Mixing

If mixing a complete unit of material (5kg):

- 1 Please ensure as much of the base and activator is dispensed from the plastic container onto a clean plastic mixing surface.
- 2 Mix using the spatula provided until a uniform material free of any streakiness is achieved while ensuring no unmixed material is left on the spatula or the mixing surface.
- 3 From the commencement of mixing the whole of the material should be used within 50 minutes at 20°C (68°F).

If part mixing the unit of material:

- 1 Using a spatula place 2 equal measures from the base unit onto a clean plastic mixing surface.
- 2 Clean the spatula thoroughly.
- 3 Take 1 equal measure from the Activator unit and place alongside the base measures.
- 4 Ensure the product is streak free and a consistent colour before applying to the repair surface.

D. Application

Step 1

Using the spatula or applicator tool, apply the material to the blast prepared surface.

Step 2

Ensure the product is pressed into any holes, scars or cracks and profile the repair to a smooth finish.

Step 3

Apply in a single coat at wet film thickness of 6-10mm.

Quick Application Guide



Step 1

Ensure you have:

- 1 x base unit
- 1 x activator unit
- 1 x spatula
- 1 x applicator tool
- 1 x clean mixing board



Step 2

Take equal 2 equal measures of base material, clean the spatula, then take 1 measure of the activator.



Step 3

Mix the two components using the spatula provided, ensure any unmixed material around the edges is mixed.



Step 4

To ensure the product is fully mixed create a diamond pattern on the surface and look for any unmixed areas.



Step 5

Once the material is fully mixed use the applicator tool to apply the beaded ceramic repair paste to the surface.

About Resimac

A UK based manufacturer of epoxy and polyurethane coatings and repair materials.

From our head office in the heart of rural North Yorkshire, England we supply our range of Epoxy, Polyurethane & Silicone coatings and repair materials to the Oil & Gas, Petrochemical, Marine, Paper & Pulp, Water, Power Generation & Chemical Industries.

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.

Information & Enquiries

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