



201 Ceramic Repair Paste

A durable epoxy filler designed to repair worn and corroded metal surfaces. Provides excellent abrasion and erosion resistance for long lasting protection.

- High build epoxy filler for effective surface repair
- Excellent abrasion and erosion resistance
- Can be applied up to 25mm thick

2025 Product Sheet

Typical Applications

201 Ceramic Repair Paste is a solvent free epoxy repair paste designed to restore and protect worn or corroded metal surfaces. Reinforced with ceramic fillers, it offers abrasion resistance and long term durability in demanding environments. Ideal for filling surface erosion and corrosion, it's a reliable solution for maintenance and repair.

- Worn impellers
 - Damaged valves
 - Separator housings
 - Damaged pump casings
 - Eroded pipe work
- Propellers
 - Bow thrusters
 - Rudders
 - Corroded water boxes
 - End plates and tube sheets

Cure times

Usable Life		Min machining time		Max overcoating time		Full Cure	
10°C/50°F	60 mins	10°C/50°F	4 hours	10°C/50°F	12 hours	10°C/50°F	6 days
20°C/68°F	30 mins	20°C/68°F	2 hours	20°C/68°F	6 hours	20°C/68°F	3 days
30°C/86°F	15 mins	30°C/86°F	1 hour	30°C/86°F	3 hours	30°C/86°F	1.5 days
40°C/104°F	7.5 mins	40°C/104°F	30 mins	40°C/104°F	90 mins	40°C/104°F	18 hours

Characteristics

Appearance		Density	
Base	Dark Grey Paste	Base	2.70
Activator	Light Grey Paste	Activator	1.70
Mixed	Mid Grey Paste	Mixed	2.46
Solids Content		Mixing Ratio	
100%		By weight	5:1
		By volume	3:1
Volume Capacity		Storage Life	
406cc/kg		5 years if unopened and stored in normal dry conditions, 15–30°C (59–86°F)	
Sag Resistance			
Nil at 25mm			

Coverage

1kg (2.2lb) of fully mixed product will give the following coverage rates

0.406m² at 1mm	4.3ft² at 40mil
0.203m² at 2mm	2.2ft² at 80mil
0.135m² at 3mm	1.45ft² at 1/8"

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 CS17 Wheels/1kg load 20mm³ loss/1000 cycles

Compressive Strength

Tested to ASTM D695 1075kg/cm² (15300psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
703kg/cm² (10,000psi)

Hardness

ASTM D224, Shore D: 84

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 60°C (140°F)
Resistant to dry heat up to 200°C (392°F) dependent on load

Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile 206kg/cm² (2920psi)

Pull off Adhesion to ASTM D4541 on abrasive blasted mild steel with 75 micron profile 244kg/cm² (3480 psi)

Heat Distortion

Tested to ASTM D648 at 264psi fibre stress:

20°C (68°F) Cure 58°C (136°F)

100°C (212°F) Cure 98°C (208°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.

Food Contact

USDA compliant for incidental food contact.

Title 21, Food and Drugs, Chapter I, U.S. Code of Federal Regulations, FDA, Subchapter B – Food for Human Consumption, Section 175.300 (Resinous and Polymeric Coatings).

Pack Sizes

This product is available in the following pack sizes:
1kg (2.2lbs)
3kg (6.6lbs)

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.

MIL-PRF-24176C Qualification

This Resimac product has been approved under MIL-PRF-24176C for Type I and II applications in cement, epoxy, metal repair, and hull smoothing.

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 5°C (41°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 part mixing the unit of material:

- 1 Using the spatula provided place 3 equal measures from the base unit onto the mixing board provided.
- 2 Clean the spatula thoroughly.
- 3 Then take 1 equal measure from the activator unit and place alongside the base measures.
- 4 Mix the 2 components together until you have a streak free mix (mid grey) on the mixing board.
- 5 Ensure there is no unmixed material on the spatula or mixing board.

If mixing a complete unit of material:

- 1 Dispense as much of the base and activator units onto the mixing board provided.
- 2 Mix the 2 components together until you have a streak free mix (mid grey) on the mixing board.
- 3 Ensure there is no unmixed material on the spatula or mixing board.

PLEASE NOTE: From the commencement of mixing, the material should be used within 30 minutes at 20°C (68°F).

D. Application

Step 1

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

Step 2

Ensure the product is pressed into any holes, scars or cracks.

Step 3

Once the repair has been completed smooth off any imperfections using a gloved hand.

Quick Application Guide



Step 1

Ensure you have:

1 x base unit

1 x activator unit

1 x spatula

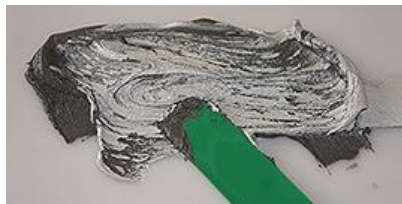
1 applicator

1 x clean mixing area



Step 2

Take equal 3 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 areas which are not mid grey in colour.



Step 5

Once the material is fully mixed use the applicator tool provided to apply the 201 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.

Approvals

Approved by BUREAU VERITAS for Surface Protection and Cold Repair Products applied to Marine Vessels. Certificate No: 55268/B0 BV. Expiry: 1st June 2029.

Information & Enquiries

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