



resimac^{co}

203 Super Flow

An erosion and corrosion resistant epoxy coating designed for fluid flow applications, improving flow efficiency by reducing wear and damage in harsh process environments.

- Excellent erosion and abrasion resistance
- High gloss finish for smoother flow
- Improves fluid flow efficiency in process equipment
- Brushable for easy application

2025 Product Sheet

Typical Applications

203 Super Flow is a high performance, solvent free epoxy coating formulated for improving fluid flow in industrial systems. Ideal for fluid flow applications, it enhances efficiency by reducing friction and protecting against erosion in harsh process environments. This coating is engineered to withstand the wear caused by fluid dynamics, ensuring better flow rates.

- Bow thrusters & Rudders
 - Corroded water boxes, end plates, & tube sheets
 - Internal pipe surfaces & elbows
 - Fans & fan housings
- Worn impellers
 - Damaged valves
 - Separator housings
 - Damaged pump casings
 - Eroded pipework
 - Propellers

Cure times

Usable Life		Min overcoating time		Max overcoating time		Full Cure	
10°C/50°F	40 mins	10°C/50°F	4 hours	10°C/50°F	12 hours	10°C/50°F	4 days
20°C/68°F	20 mins	20°C/68°F	2 hours	20°C/68°F	6 hours	20°C/68°F	2 days
30°C/86°F	10 mins	30°C/86°F	1 hour	30°C/86°F	3 hours	30°C/86°F	1 day
40°C/104°F	5 mins	40°C/104°F	30 mins	40°C/104°F	90 mins	40°C/104°F	12 hours

Characteristics

Appearance

Base	Light Grey, Red, or Blue paste
Activator	Straw coloured liquid
Mixed	Light Grey, Red, or Blue

Solids Content

100%

Volume Capacity

657cc/kg

Sag Resistance

Nil at 400microns

Density

Base	1.67
Activator	1.05
Mixed	1.52

Mixing Ratio

By weight	5:1
By volume	3:1

Storage Life

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

Coverage

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

3.235m² at 200 microns	34.77ft² at 8mil
2.188m² at 300 microns	23.52ft² at 12mil

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
24mm³ loss/1000 cycles

Compressive Strength

Tested to ASTM D695
735kg/cm² (10450psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
570kg/cm² (8100psi)

Hardness

Rockwell R to ASTM D785: 85

Adhesion

Tensile Shear to ASTM D1002 on
abrasive blasted mild steel with 75
micron profile 187kg/cm² (2650psi)

Pull off Adhesion to ASTM D4541 on
abrasive blasted mild steel with 75
micron profile 202kg/cm² (2880psi)

Heat Distortion

Tested to ASTM D648 at 264psi fibre
stress:

20°C (68°F) Cure 46°C (115°F)

100°C (212°F) Cure 82°C (179°F)

Heat Resistance

Suitable for use in immersed
conditions at temperatures up to
70°C (158°F)

Resistant to dry heat up to 200°C
(392°F) dependent on load

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).*

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.

Pack Sizes

This product is available in the
following pack sizes:

1kg (2.2lbs)

3kg (6.6lbs)

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

Mix the unit in full (1kg/3kg):

- 1 Pour the contents of the Activator unit into the Base container.
- 2 Ensure as much material as possible is drained from the Activator container into the Base container.
- 3 Mix the 2 components together using the spatula provided.
- 4 Ensure the product is streak free and a consistent colour before applying to the repair surface.

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

D. Application

- 1 Use a short bristle brush to apply the mixed material, with an approximate bristle length of 2cm.
- 2 Apply the coating at a wet film thickness range of 200–300 microns (8–12mil).
- 3 Special attention should be paid to detailed areas such as edges, corners and welds where brush application by stippling may be required.
- 4 Allow the 1st coat of material to cure for approximately 2 hours at 20°C (68°F).
- 5 Once the 1st coat has cured hard enough apply a 2nd coat of material at a target thickness of 200–300 microns (8–12mil).

Quick Application Guide



Step 1

Ensure you have:

1 x base unit

1 x activator unit

1 x spatula

1 x brush with the bristles cut to 25mm length



Step 2

Open the activator tin and pour contents into the base unit.



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 check the material for any colour difference. The mixed material should be a consistent mix.



Step 5

Once the material is fully mixed use a short-bristled brush to apply the coating to the substrate.

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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