

Repair Protect Upgrade



Extreme Wear, Abrasion & Impact

Introduction to Resimac

Resimac manufactures a wide range of beaded ceramic epoxy repair materials which are ideal for repairs to process equipment and components subject to extreme wear, abrasion & impact.

Our beaded ceramic enhanced epoxy repair products are manufactured in the UK and exported to over 50 countries worldwide. We are able to provide local solutions in North America, South America, Africa, Europe, Middle East and Asia using our approved contractor network.

We have an extensive track record across all industries with our products being used by some of the largest corporations worldwide to help protect metallic and concrete surfaces from premature failure.

Oil & Gas

Power

Water

Chemical

Marine

Mining & Mineral Process

Paper & Pulp





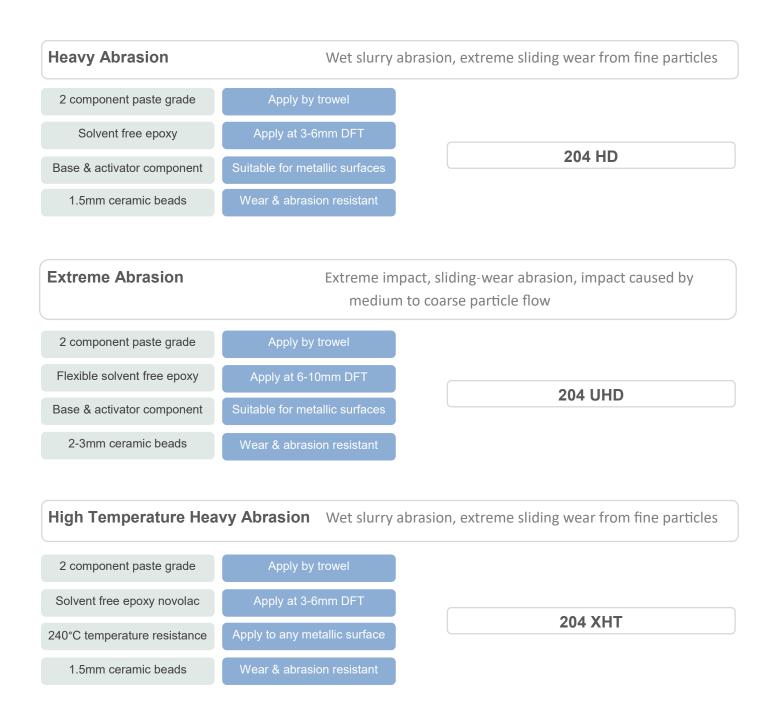












Innovation and Technology

Through advanced testing in the Resimac laboratories we have developed a range of products with unrivalled wear, impact and abrasion resistance.

204 HD

Based on 1.5mm bead blend Epoxy resin based Max 60°C immersion resistance Max 150°C dry temp resistance

Wet slurry abrasion

Extreme sliding wear from fine particles



Slurry pumps
Fan blade & housing
Slurry pipes
Transport screws

Separators
Pipe spools

Bins & hoppers
Hydro-pulpers
Hydro-cyclones
Wear plates
Pipe elbows
Chutes & hoppers

204 UHD

Based on 2-3mm bead blend Flexible epoxy resin based Max 60°C immersion resistance Max 120°C dry temp resistance

Extreme impact, sliding-wear abrasion, impact caused by medium to coarse particle flow.



Pulveriser's
Slurry pipelines
Fans/blowers/cyclones
Hoppers & silos
Chutes

Deflector hoods

Pipe elbows
Dredge pumps
Fan housings
Ceramic tiles
Conveyor screw

204 XHT

Based on 1.5mm bead blend Epoxy resin based Max 130°C immersion resistance Max 240°C dry temp resistance

Wet slurry abrasion

Extreme sliding wear from fine particles



Slurry pumps
Fan blade & housing
Slurry pipes
Transport screws
Separators
Pipe spools

Bins & hoppers
Hydro-pulpers
Hydro-cyclones
Wear plates
Pipe elbows
Chutes & hoppers

How do you apply these products?



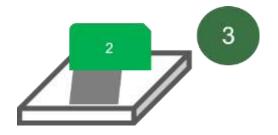
Ensure the product is streak free and a consistent mix throughout

Ensure the mixed product is placed on a clean surface



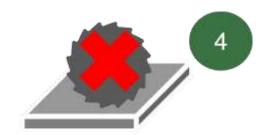
Use the applicator tools provided

- 1. Ideal for coving and intricate details
- 2. Ideal for filling flat surfaces



Apply the material to the repair surface, force the product into any cracks or holes.

Smooth off any ridges with a gloved hand



Once cured these products cannot be machined

What film thickness are these products applied?

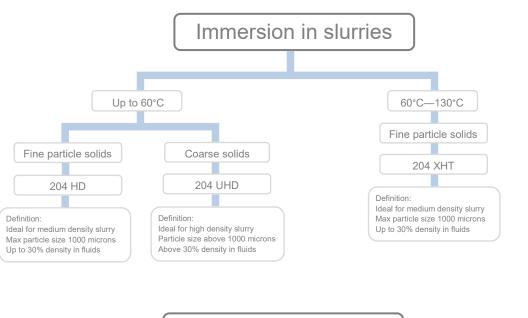


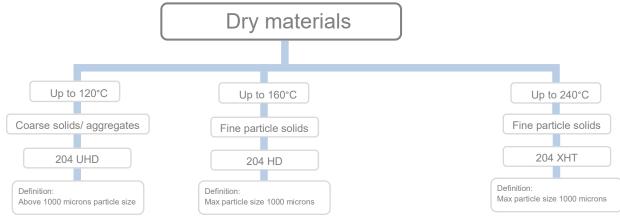
What are the benefits of using Resimac products?

Simple and easy to apply Eradicates hot works/ welding Reduced Health & Safety risk No specialist tools required Bonds to any metallic surface Reduced downtime No shrinkage during cure High mechanical adhesion Reinforced with ceramic beads Extended life cycle costs Proven abrasion resistance Resists high impact force Replacement for rubber lining Reduced inspection times Restore to OEM specifications Replace expensive alloys Resists industrial chemicals High temperature resistance Multiple on site solutions

Resists high density slurries

Which product do I use?





Typical Applications

Resimac abrasion resistant materials can be used across a wide range of industries. The 204 series of products are ideal for protecting metallic surfaces subject to wear from heavy abrasion and impact.

Process equipment and structures that are involved in grinding, crushing, dry sliding abrasion, wet sliding abrasion, high impact environments and chemical attack can be protected from premature failure using the Resimac 204 series products.

Separation Ponds & Tanks





Screens & Shakers



Pumps



Valves



Crushers & Grinders



Deflector plates



Chutes



Hoppers



Transport Screws



Pipes & Pipe Elbows

Abrasion, Wear & Impact Protection

Product Testing and Product Characteristics

	HD	UHD	XHT
Compressive strength Tested to ASTM D 695	1046kg/ cm² (14,880psi)	790kg/ cm² (11,150psi)	1046kg/ cm² (14,880psi)
Corrosion Resistance Tested to ASTM B117	1000 hours	1000 hours	1000 hours
Flexural Strength Tested to ASTM D790	475kg/cm² (6710psi)	415kg/cm² (5860psi)	475kg/cm² (6710psi)
Hardness Rockwell R to ASTM D785	89	75	89
Slump Resistance	10mm	20mm	10mm
Tensile Shear Adhesion Tested to ASTM D1002	272kg/cm² (3840psi)	236kg/cm² (3330psi)	272kg/cm² (3840psi)
Abrasion Resistance Taber abrasion CS17 1000 cycles/ 1kg	42mm³	29mm³	42mm³
Volume Capacity cc per kg	440	420	448
Base density gm per cm³	2.28	2.41	2.21
Activator density gm per cm³	2.26	2.29	2.26
Mixed product density gm per cm³	2.27	2.38	2.23
Dry heat resistance (°C)	150	120	240
Intermittent wet heat resistance (°C)	120	100	150
Immersion temperature resistance (°C)	60	60	130
Mixing ratio by volume	2:1	5:2	2:1
Mixing ratio by weight	2:1	2.64:1	2:1

	10°C			20°C			30°C			40°C		
	Pot life	Touch dry	Immersion									
HD	60mins	8hrs	4 days	30mins	4hrs	2 days	15mins	2hrs	1 day	7.5mins	60mins	12hrs
UHD	100mins	12hrs	4 days	50mins	6hrs	2 days	25mins	3hrs	1 day	12.5mins	90mins	12hrs
XHT	60mins	8hrs	4 days	30mins	4hrs	2 days	15mins	2hrs	1 day	7.5mins	60mins	12hrs

Resimac Technical Support and Expertise



Formed in 2009 and based in the North of England, Resimac manufactures a wide range of solvent free epoxy and polyurethane coatings and engineering materials for the Marine, Chemical, Water, Power, Oil and Gas Industries.



We are able to offer expert technical advice onsite or online 24 hours a day, 7 days a week in over 45 countries worldwide.



Contact us direct by email, telephone or by visiting our website.

Web: www.resimacsolutions.com

Tel: +44 (0) 1845 577498 Email: info@resimac.co.uk



With over 50 contractors worldwide we are able to offer fast and effective solutions in many of the worlds major industrial areas.



Fluid Wear & Abrasion

Extreme Wear & Abrasion

Chemical Protection

Corrosion Protection

High Temperature Protection

Impact Protection

Metal Repair

Pipe Repair and Pipe Wrapping

Thermal Protection

Resimac Limited
Unit B, Park Barn Estate
Station Road, Topcliffe
Thirsk, North Yorkshire
YO7 3SE
UNITED KINGDOM

Tel: +44 (0) 1845 577498

Email: info@resimac.co.uk

Web: www.resimacsolutions.com