

Repair Protect

Upgrade



Anti-Slip Floor Coatings

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

Introduction to Resimac Anti-Slip Floor Coatings

Resimac anti-slip flooring systems have been used in the marine, chemical process, power and petrochemical industries and are able to solve slip issues in chemical and wet environments.

Our anti-slip coatings have been used to ensure a safe working environment on thousands of square metres of marine decks and factory floors and are proven to offer outstanding durability from foot, fork lift and heavy construction traffic.

The coating systems are easy to apply and are based on the latest solvent free epoxy and polyurethane coating technology

Factory floors

Mezzanine floors

Car decks

Marine decks

Ramps

Stairways

Walkways

Warehouses

Laboratories















Resimac Anti-Slip Floor Coating Range

104 Metal Repair Fluid XF

Fast curing solvent free epoxy fluid for coating manually prepared oily surfaces	Apply to manually prepared surfaces by applicator tool Incorporate bauxite aggregate into the surface for an anti slip finish	Ideal for metallic stair nosings where mechanical or abrasive blast cleaning is not possible	Usable life 5 mins Touch Dry 30 mins Hard Dry 2 hours	Light grey
--	---	--	---	------------

Resichem 507 DWPU

High build flexible solvent free polyurethane coating	Apply to mechanically or abrasive blast cleaned surfaces at 2mm wet film thickness	Ideal for metallic surfaces such marine decks and steel mezzanine floors	Usable life 20 mins Touch Dry 2 hours	Light grey
	Incorporate a 3mm bauxite or flint aggregate to obtain a hard wearing, flexible anti slip finish	Resistant to diesel, Petrol and most hydrocarbons	Hard Dry 8 hours	

Resichem 511 UCEN

High build solvent free epoxy novolac coating with excellent chemical resistance	metallic surfaces	Ideal for chemical processing floors Once cured the coating will resist 98% sulphuric acid, 75% phosphoric acid, 36% Hydrochloric acid	Usable life 25 mins Touch Dry 6 hours Hard Dry 12 hours	Dark grey or Red
--	-------------------	---	---	---------------------

Resichem 590 Epoxy FC

High build solvent free epoxy floor coating with a gloss finish	Apply by roller to primed concrete surfaces Incorporate a 1mm clear quartz aggregate into the base coat Encapsulate the anti-slip finish with a 2nd coat of material	Ideal for large industrial floor spaces where an anti slip finish is required. Excellent chemical resistance to mild aqueous chemicals such as 20% sulphuric acid	Usable life 60 mins Touch Dry 5 hours Hard Dry 18 hours	Available in a wide range of colours
---	--	--	---	--

Resichem 592 Epoxy DF

Decorative flooring system using a solvent free epoxy base coat, coloured quartz aggregate and a light stable sealer finish Apply the base coat resin and broadcast coloured quartz aggregate into the surface Seal with a clear epoxy resin coating to give a decorative anti-slip finish to the floor surface	Ideal for kitchen floors, balconies or surfaces requiring a colourful decorative finish	Usable life 25 mins Touch Dry 4 hours Hard Dry 8 hours	Available in a wide range of colours
---	---	--	--------------------------------------

Metal Surfaces

stairs, stair nosings, ramps

Surface Preparation	Solvent Only SSPC-SP-1	Manual ISO 8501/4 ST2 SSPC-SP-S-2
Durability	Solvent Only Foot traffic	Manual Foot traffic
Design Life	Solvent Only 12-18months	Manual 2 years +

- Solvent free epoxy system
- Flexible once cured
- Fast curing—walk on in 2 hours
- 3mm + film thickness
- Simple and easy to apply
- Proven system for marine, chemical, Petrochem Industries
- Ideal for small applications in non spark areas
- Good chemical resistance to diesel, oil and mild aqueous industrial chemicals



Stair nosings in an oil refinery could only be manually abraded. The metal surface had ingrained oils and grease and were wiped down with solvent.

104 Metal Repair fluid XF was applied by applicator tool and covered with 3mm bauxite aggregate.

The anti slip coating was fully cured with 2 hours.

Over 1000 stairs and stair nosings were coated with the 104 Metal Repair Fluid XF anti-slip system





Product recommended for this type of application....

104 Metal Repair Fluid XF is a two component solvent free fast curing epoxy repair fluid. The product has been designed to be applied to manually prepared oily surfaces.

Metal Surfaces

marine decks and steel mezzanine floors

Surface Preparation	Mechanical ISO8501/4 ST3 SSPC-SP-2	Abrasive clean ISO 8501/4 SA2.5 SSPC-SP-S-10
Durability	Mechanical 45 ton vehicles	Abrasive clean 65 ton metal tracked vehicles
Design Life	5 years	7 years+

- Solvent free polyurethane system
- Flexible once cured
- Ready for heavy traffic within 72hours (20°C)
- 3mm + film thickness
- Simple and easy to apply
- Proven system for marine, chemical, manufacturing and power generation industries
- Ideal for large surface areas in demanding industrial & marine environments
- Chemically resistant to diesel, petrol, oil & grease







Resichem 507 DWPU was chosen as a ferry deck anti-slip coating system. Surfaces were mechanically abraded and degreased to remove all surface contaminants.

507DWPU was applied at a wet film thickness of 2mm and fully blinded with 3mm coarse bauxite aggregate.

The coating system has been used on 1000's of square metres of marine decks and steel mezzanine floors.

Product recommended for this type of application....

507 DWPU is a two component solvent free polyurethane coating that has been designed to be applied to steel decks and floor surfaces. The coating once cured offers a tough, durable and flexible finish capable of dealing with high volume heavy vehicle traffic.

Concrete Surfaces

factories, light industrial, warehouses

Surface Preparation	Mechanical SSPC-SP-13 ASTM D4258 Abrade with coarse discs	Abrasive Clean SSPC-SP-13 ASTM D4258 Angled grit	 Solvent free epoxy system Ready for foot traffic within 48 hours (20°C) Ready for forklift traffic within 72 hours (20°C) Simple and easy to apply
Durability	Mechanical Fork lift traffic	Abrasive Clean Fork lift traffic up to 45ton vehicle	 Incorporate 1mm clear aggregate for anti-slip finish Proven system for warehouse, light industrial applications
Design Life	Mechanical up to 8 years	Abrasive Clean up to 10 years	Good chemical resistance to diesel, oil and mild aqueous industrial chemicals



Powder blending plant had slip issues with the concrete factory floor.

The concrete surface was primed with Resichem 503 SPEP low viscosity epoxy primer.

Base coat of Resichem 590 Epoxy FC was applied and 1mm clear quartz aggregate was broadcast into the wet surface.

Once dry a 2nd coat of material was applied to the floor to encapsulate the aggregate.







Product recommended for this type of application....

Resichem 590 Epoxy FC is a two component solvent free epoxy floor coating with a gloss finish when fully cured. The coating can withstand contact with mild aqueous industrial chemicals.

Concrete Surfaces

kitchens, laboratories, balconies

Surface Preparation	Manual Abrade with handheld tools	Mechanical SSPC-SP-13 ASTM D4258 Abrade with abrasive discs	 Solvent free epox Available in a wid 1–1.5mm pigment System ready to v
Durability	Manual Foot traffic	Mechanical Foot traffic	Anti-slip decoration
Design Life	Manual up to 5 years	Mechanical up to 10 years	

- cy technology
- de range of decorative colours
- ted quartz aggregate
- walk on within 48 hours (20°C)
- ve finish

Housing Association required a waterproofing system for over 60 balconies at a complex in the UK.

592 Epoxy DF was chosen due to its anti-slip and decorative finish.

A base coat of resin was applied at 500-700 microns and then fully blinded with pigmented quartz aggregate.

Once cured a light stable sealer coat was applied to the surface to encapsulate the decorative finish











Product recommended for this type of application....

Resichem 592 Epoxy DF is a multi component flooring system for areas that require a decorative finish. The system has been designed to be applied to primed concrete surfaces and is based on the latest solvent free epoxy technology.

Concrete Surfaces

Chemical resistant anti-slip finish for industrial

Surface Preparation	Mechanical SSPC-SP-13 ASTM D4258 Abrade with coarse discs	Abrasive Clean SSPC-SP-13 ASTM D4258 Angled grit
Durability	Mechanical Fork lift traffic	Abrasive Clean Fork lift traffic up to 45ton vehicle
Design Life	Mechanical up to 7 years	Abrasive Clean up to 10 years

- Solvent free epoxy novolac technology
- Apply to abrasive blast cleaned metallic surfaces
- Apply to primed concrete surfaces
- Withstands immersion and contact with 98% Sulphuric acid 75% Phosphoric acid 36% Hydrochloric acid
- Incorporate a 2mm bauxite aggregate to give a hard wearing chemical resistant anti-slip finish

A car battery manufacturer in the EU required a chemical resistant anti-slip finish to the 50% sulphuric acid intake area.

After using several other coating manufacturers products without success Resichem 511 UCEN was chosen as the preferred coating for all sulphuric acid areas on site.

The contractor applying the coating incorporated a 2mm bauxite aggregate into the coating to give an anti-slip finish capable withstanding the highly concentrated acid







Product recommended for this type of application....

Resichem 511UCEN is a two component solvent free epoxy novolac coating capable of withstanding immersion and contact with high concentration industrial chemicals.

Anti-Slip Floor Coating Product Characteristics

	104	507	511	590	592
Compressive strength Tested to ASTM D 695	185kg/ cm² (2630psi)	440kg/ cm² (6250psi)	984kg/ cm² (13,950psi)	531kg/ cm² (7550psi)	629kg/ cm² (8945psi)
Corrosion Resistance Tested to ASTM B117	5000 hours	5000 hours	5000 hours	5000 hours	2000 hours
Flexural Strength Tested to ASTM D790	240kg/cm² (3400psi)	N/A	208kg/cm² (2950psi)	208kg/cm ² (2950psi)	371kg/cm² (5275psi)
Hardness Rockwell R to ASTM D785	85	80	85	82	84
Slump Resistance	3mm	750 microns	500 microns	300 microns	150 microns
Tensile Shear Adhesion Tested to ASTM D1002	185kg/cm² (2630psi)	169kg/cm² (2400psi)	208kg/cm² (2950psi)	185kg/cm ² (2630psi)	201kg/cm ² (2860psi)
Volume Capacity cc per kg	555	1000	1000	1000	1000
Base density gm per cm ³	1.80	1.31	1.41	1.75	1.12
Activator density gm per cm ³	1.80	1.22	1.02	1.00	1.00
Mixed product density gm per cm ³	1.80	1.29	1.32	1.32	1.08
Dry heat resistance	130	120	200	160	160
Intermittent wet heat resistance (°C)	80	80	90	80	80
Immersion temperature resistance (°C)	60	70	70	60	60
Mixing ratio by volume	1:1	3:1	3:1	1.15:1	2:1
Mixing ratio by weight	1:1	3.25:1	4:1	2:1	2.24:1

	10°C			20°C			30°C			40°C		
	Pot life	Touch Dry	Hard dry	Pot life	Touch Dry	Hard dry	Pot life	Touch Dry	Hard dry	Pot life	Touch Dry	Hard dry
104	10mins	60mins	4hrs	5mins	30mins	2hrs	2.5mins	15mins	1hrs	75secs	7.5mins	30mins
507	20mins	5hrs	9hrs	20mins	4hrs	8hrs	15mins	3hrs	7hrs	10mins	2hrs	6hrs
511	50mins	12hrs	24hrs	25mins	6hrs	12hrs	12.5min	3hrs	6hrs	6mins	90mins	3hrs
590	90mins	24hrs	48hrs	45mins	12hrs	24hrs	22.5min	6hrs	12hrs	11mins	3hrs	6hrs
592	50mins	8hrs	16hrs	25mins	4hrs	8hrs	12.5min	2hrs	4hrs	6mins	2hrs	4hrs

Anti-Slip Flooring Systems Application Guide

104 Metal Repair Fluid XF

Substrate	Surface Preparation	WFT	Aggregate	Durability	Applications
Metallic	Minimum—clean the surface with solvent wipes	2mm	2-3mm	Foot Traffic	Stair Nosings
	Ideal—mechanical grinders, coarse pad ST2		Bauxite		

507 DWPU

Substrate	Surface Preparation	WFT	Aggregate	Durability	Applications
Metallic	Minimum —mechanical grinders, coarse pad ST3	2mm	2-3mm	Heavy Duty	Metal decks &
	Ideal—abrasive blast clean SA2.5, 75 mics profile		Bauxite	up to 65	Floors
	idea. davaste stast steat of all of 12.5, 7.5 times promis			ton vehicle	

511 UCEN

Substrate	Surface Preparation	WFT	Aggregate	Durability	Applications
Metallic	Minimum —mechanical grinders	700-800	1mm clear	Medium	Warehouse,
Concrete	Ideal—abrasive blast clean SA2.5, 75 mics profile	microns quartz aggregate	quartz aggregate	Duty Forklift	industrial , chemical
	Minimum—grind and abrade the surface & prime with 503 SPEP			processing floor	
	Ideal—abrasive blast clean and prime with 503 SPEP			ton vemore	

590 Epoxy FC

Substrate	Surface Preparation	WFT	Aggregate	Durability	Applications
Concrete	Minimum—grind and abrade the surface & prime with 503 SPEP	500 microns	1mm clear quartz	Medium Duty	Warehouse & industrial
	Ideal—abrasive blast clean and prime with 503 SPEP			Forklift traffic to 45 ton vehicle	floors

592 Epoxy DF

Substrate	Surface Preparation	WFT	Aggregate	Durability	Applications	
Concrete	Minimum—grind and abrade the surface & prime	1-2mm	1mm	Medium	Balconies,	
	with 503 SPEP		pigmented	Duty	Laboratories,	
	Ideal—abrasive blast clean and prime with 503 SPEP		quartz		kitchens	

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.



Anti-Slip Floor Coatings

Chemical Tank & Vessel Lining

Containment Areas

CUI Prevention

Drinking Water Tank Linings

Engine Blocks

External Surfaces

Filters

Flange Face Repair & Reforming

Floor Resurfacing

Heat Exchanger Repair

Heat Protection

HVAC Repair & Linings

Pipe Repair & Pipe Wrapping

Platebonding

Pump & Process System Repairs

Roof & Gutters

Rudders & Bow Thrusters

Transformer Repairs

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