resimac Ltd.

595 PU Floor XF

Fast curing, solvent free polyurea for high traffic line marking, with excellent abrasion resistance and durable gloss finish, even in low temperatures.

- Fast curing to reduce downtime in high traffic zones
- Solvent free and low odour for enclosed areas
- High abrasion resistance and UV stability
- Cures at 3–5°C (37–41°F) with no dew point issues

2025 Product Sheet

Typical Applications

595 PU Floor XF is a two component, solvent free polyurea system developed for line marking in demanding industrial environments. It cures rapidly even in low temperatures, minimising downtime during application in process areas, walkways, and hazardous zones. The product offers a durable gloss finish and can be used to clearly define safety critical areas in manufacturing or heavy duty settings.

Typical Line Applications:

- Laboratories
- Loading bays
- Vehicle routes
- Factory floors
- Brewery floors
- Warehouse zones
- Hazard marking zones
- Packaging & processing areas
- Food preparation areas
- Ramps & walkways

Characteristics

Appearance

Base	Highly structured thixotropic liquid
Activator	Amber liquid
Mixed	Thixotropic liquid

Colours

- Dark grey
- Light Grey
- Black
- White
- Red
- Blue
- Yellow

Density

Base	1.73
Activator	1.11
Mixed	1.52

Mixing Ratio

By weight	3:1
By volume	2:1

Storage Life

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

Volume Capacity

657cc/kg

Sag Resistance

Nil at 400microns

Solids Content

100%

Cure times

Usable Life		Min overcoating time		Max overcoating time		Foot Traffic	
10°C/50°F	30 mins	10°C/50°F	2 hours	10°C/50°F	48 hours	10°C/50°F	3 hours
20°C/68°F	15 mins	20°C/68°F	90 mins	20°C/68°F	24 hours	20°C/68°F	2 hours
30°C/86°F	7.5 mins	30°C/86°F	45 mins	30°C/86°F	12 hours	30°C/86°F	1.5 hours
40°C/104°F	3 mins	40°C/104°F	22 mins	40°C/104°F	6 hours	40°C/104°F	1 hour

Mechanical Properties

Abrasion Resistance
Taber CS17 Wheels/1kg load
66mg loss/1000 cycles

Compressive Strength
Tested to ASTM D695
22MPa (3250psi)

Corrosion Resistance
Tested to ASTM B117
Minimum 1000 hours

Flexural Strength
Tested to ASTM D790
532kg/cm² (7460psi)

Hardness
Shore D to ASTM D2240: 75

Adhesion
Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile
160kg/cm² (2275psi)

Impact Resistance
Tested to ASTM G14
5.75 joules

Heat Resistance
Resistant to dry heat up to 120°C (248°F) dependent on load

Details & Legal

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.

Coverage

1ltr (0.25 US gallon) of fully mixed product will give the following coverage rates:

4m² at 250 microns	86ft² at 10mil
2ltr (0.25 US Gallon)	
8m² at 250 microns	43ft² at 10mil

Quality
All Resimac Products are supplied under the scope of the company's fully documented quality system.

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:
1ltr (0.25 US gallon)
2ltrs (0.5 US gallon)

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

Application Guide

A. Surface Preparation

Existing concrete:

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Once the concrete is dry, lightly abrasive blast clean or scarify taking care not to expose the aggregate.

New concrete:

1. Allow new concrete to cure for a minimum of 21 days and treat to remove any surface laitance.
2. Check the moisture content of the concrete prior to coating (25% moisture content or below).
3. Lightly scarify the surface taking care not to expose the aggregate.
4. Clean all dust and debris from the surface.

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 3°C (37°F).

C. Mixing

Mix the unit in full (1ltrs/2ltrs):

1. Transfer the contents of the Activator unit into the Base container.
2. Using a spatula, mix the 2 components until a uniform material free of any streaks is achieved.
3. From the commencement of mixing the whole of the material should be used within 15 minutes at 20°C (68°F).

D. Application

Brush or roller application:

1. Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life).
2. Apply the mixed product to all surfaces at 250 microns (10mil) wet film thickness.
3. Allow to cure for minimum of 2hrs at 20°C (68°F).
4. If the product is being applied over the top of strong colours a 2nd coat of material may be needed.
5. Apply the 2nd coat as soon as the 1st coat is touch dry 60-90mins at 2hrs at 20°C (68°F).

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.

Quick Application Guide

Step 1

Ensure you have:
1 x base unit
1 x activator unit
1 x spatula
1 x brush
1 x medium pile roller
1 x roller tray or paint kettle

Step 2

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

Step 3

Mix the two components using spatula. Ensure the product is fully mixed by checking the material for any colour difference.

Step 4

Once the material is fully mixed pour into a roller tray or paint kettle and apply the product to the substrate using a brush or roller.

Step 5

Allow to cure (2 hours minimum) and apply 2nd coat if required including optional Resimac 910 aggregate and back roll.

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

Information & Enquiries

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