RESICHEM 590 EPOXY FC

Resichem 590 Epoxy F C is a two pack solvent free epoxy floor coating system which provides protection and decorative properties to concrete and other substrates. After mixing the coating provides a hard wearing gloss finish epoxy coating is produced.

Typical applications

Factory floors, Warehouse floors, Food preparation areas, Brewery floors, Laboratories, Ramps, Walkways

Characteristics

Appearance

Base:	Highly structured thixotropic liquid
Activator:	Amber liquid
Mixed:	Thixotropic liquid

Mixing Ratio

By weight:	2:1
By volume:	1.15:1

Density

Base:	1.78
Activator:	1.00
Mixed:	1.39

Solids content

100%

Sag Resistance

Nil at 300 microns

Coverage

Resichem 590 Epoxy FC must be applied as a 2 coat system to properly prepared surfaces.

Brush or roller applications:
The material should be applied in two coats at a target thickness of 250 microns (10mil) per coat.

At 250 microns Resichem 590 Epoxy FC will have a theoretical coverage rate of 4m² per ltr per coat.

Cure Times

The applied material should be allowed to harden for the times indicated below before being subjected to the conditions indicated:

Usable life

10°C	90 minutes
20°C	45 minutes
30°C	22 minutes
40˚C	11 minutes

Minimum overcoating time

10°C	24 hours
20°C	12 hours
30°C	6 hours
40˚C	3 hour

Maximum overcoating time

10°C	72 hours
20°C	36 hours
30°C	18 hours
40˚C	9 hours

Chemical contact

10°C	10 days
20°C	5 days
30°C	2.5 days
40˚C	30 hours

Storage life

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

Mechanical Properties

Abrasion Resistance

Taber CS17 Wheels/1 Kg load
20mg loss/1000 cycles
0.22cc loss/1000 cycles

Adhesion

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

Impact Resistance

Tested to ASTM G14
3.95 joules

Compressive strength

Tested to ASTM D 695
649kg/cm² (9200psi)

Corrosion Resistance

Tested to ASTM B117
Minimum 5000 hours

Flexural Strength

Tested to ASTM D790
522kg/cm² (7400psi)

Hardness

Shore D to ASTM D2240
85

Heat Resistance

Suitable for use in immersed conditions at temperatures up to 60°C. Resistant to dry heat up to 180°C dependent on load.

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Product Specification

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media including:

Typical Chemicals	*Maximum Temperature*
Brine	40˚C
Crude Oil	40˚C
Diesel	40˚C
Hydrochloric Acid 10%	40˚C
Naphtha	40˚C
Phosphoric Acid 30%	40˚C
Sodium Hydroxide 30%	40˚C
Sulphuric acid 20%	40˚C

For more detailed information refer to the Resimac Technical Centre for advice.

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 the Technical Data Sheet for the material.

Health and 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 the detailed Material Safety Data Sheet

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