

RESBUILD EPOXY CONCRETE

Description

Resbuild Epoxy concrete FC is a versatile, trowel applied, three component Epoxy resin-based, deep section screed/mortar.

The product is supplied in a 'natural' or concrete grey colour, and may be sealed or topped with any of the range of Resbuild Epoxy coatings or sealers as required.

Typical Uses

As a deep section protective screed for floor areas subject to impact, abrasion and chemical spillage.

As an economical, fast curing in-fill screed/mortar prior to the application of the final floor finish.

As a thick section Epoxy bedding mortar for kerbs, etc.

Advantages

- Ease of application
- Fast curing characteristics
- Economical
- Hard wearing and durable
- Taint free
- Frost resistant and impervious to water
- Negligible shrinkage even in thick section

Typical Properties

Colour: Natural or grey (other colours available upon request)

Density: 2200kg/m³

Pot Life: 20-30 minutes @ 20°C

Adhesion to concrete: 3.6MPa (concrete failure)

Compressive Strength: 64MPa

Chemical resistance: Excellent resistance to dilute acids and alkalis, oil, petrol, diesel, vegetable oils, inorganic salts, and cleaning fluids.

Packaging

Resbuild Epoxy Concrete FC is supplied in 25kg packs.

Procedure

Surface Preparation

Remove all laitance, spalled concrete, grease, oil, dust, and other contaminants by scabbling or bush hammering, to provide a sound, clean, substrate.

Any exposed reinforcing steel shall be fully exposed by cutting out around its full circumference, and cleaned by abrading or grit blasting to remove rust, scale, etc. Metal substrates shall be degreased and grit blasted to Sa 2.5 Swedish Standard.

Priming

Apply a coat of Resbuild Tackprimer by brush or roller at a nominal rate of 3.5 to 7.0m²/kg, depending upon surface profile.

Mixing

The use of mechanical, forced action mixer such as a Creteangle, is strongly recommended.

Pour the contents of the CURING AGENT container into the BASE container and mix thoroughly.

The mixed resins shall be poured into a mixing vessel, (Creteangle bucket or similar), and the AGGREGATE added steadily whilst the mixer is in motion.

Mix for 2-3 minutes until a uniform material is achieved.

Application

Resbuild Epoxy Concrete FC shall be applied whilst the primer is still 'tacky' i.e. within 2 hours of application.

The material should be tamped and trowelled to ensure good compaction and a tight finish.

Minimum application thickness is 10mm; maximum application thickness is 100mm for large areas at temperatures greater than 10°C. At lower temperatures it is permissible to apply thickness of up to 200mm.

Note: At temperatures of greater than 10°C, the material can be applied in multiple layers of 100mm to achieve the overall final thickness.

Equipment Cleaning

Clean equipment with Resbuild Toolclean prior to curing of the coating.

Curing

Resbuild Epoxy Concrete FC will have hardened sufficiently after 8 hours @ 20°C to allow over-coating, and 12 hours @ 20°C for full trafficking.

Longer periods of cure will be necessary at lower temperatures. Full mechanical and chemical resistant properties will be achieved following 7 days cure @ 20°C.

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Storage and Shelf Life

Store in dry conditions at temperatures between 10°C and 25°C. Avoid low temperature storage prior to use of the material. Do not expose to freezing conditions.

Resbuild Epoxy Concrete FC has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

A 25kg pack of Resbuild Epoxy Concrete FC yields 11.4 litres of material, sufficient for 1.14m² @ 10mm thickness.

Limitations

Do not apply to wet or uncured concrete surfaces.
Do not apply at temperatures of 3°C or less.

Health and Safety

Wear gloves and goggles.
Wash off splashes immediately with soap and water.
Any eye contamination must be rapidly irrigated with copious amounts of water, and immediate medical attention sought.
Please refer to Material Safety Data Sheet for additional information.

Resbuild Epoxy Concrete shall be applied strictly in accordance with the manufacturer's instructions.

For specific advice regarding any aspect of this product, please consult our Technical Department.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Resin Building Products Limited current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard terms and conditions of sale (available upon request).