

REPROTEC FLOOR DOCTOR RAPID

Description

[Reprotec Floor Doctor Rapid](#) is a high strength, trowel applied, two component Epoxy resin mortar, designed for rapid and permanent repairs to concrete and masonry surfaces.

Reprotec Floor Doctor Rapid is a blend of Epoxy resin, Polyamine curing agent, graded aggregate and colour pigments. The mixed material is applied to a suitably prepared surface, and quickly cures to form a durable, abrasion and chemical resistant repair.

Typical Uses

Repairs to spalled or damaged concrete; chemical bunds; bedding pre-cast concrete beams; nosings on expansion joints; floor repairs.

Advantages

- Pre-packed units – ready to use
- Fast curing characteristics
- Impact and abrasion resistant
- Frost resistant and impervious to water
- Excellent mechanical properties
- Unaffected by a wide range of acids, and industrial chemicals
- Negligible shrinkage
- High bond strength – no primer required
- Cures under damp, cool conditions

Typical Properties

Colour: Grey
Density: 2000kg/m³
Pot Life: 40 minutes @ 20°C
Adhesion to concrete: 3.9MPa (concrete failure)
Compressive Strength: 76MPa
Taber abrasion resistance: 40mg weight loss (CS17 wheels; 1kg loads, 1000 cycles)
Maximum Service Temperature: 70°C continuous

Packaging

Reprotec Floor Doctor Rapid is supplied in 5kg and 10kg 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.

Priming

Primer not normally required. For exceptionally porous surfaces use Reprotec Florprime “blinded” with kiln dried silica sand. Allow to cure, vacuum or sweep off excess silica, when cured.

Mixing

Reprotec Floor Doctor Rapid is supplied as a two component pack. Each component is pre-weighed and ready to mix.

The contents of the CURING AGENT should be added into that containing the BASE and the two components thoroughly mixed, by spatula or low speed drill/stirrer, or forced action mixer.

Application

Apply the Reprotec Floor Doctor Rapid by tamping and trowelling to ensure good compaction and a tight finish. The material should not be feather edged. Maximum thickness in horizontal applications is 50mm. For vertical applications use Reprotec Renderlite.

Equipment Cleaning

Clean equipment with Reprotec Toolclean prior to curing of the mortar.

Curing and Overcoating

Reprotec Floor Doctor Rapid will have hardened sufficiently after 5-6 hours cure @ 15-20°C to allow full trafficking.

Longer periods of cure will be necessary at lower temperatures.

Full mechanical and chemical resistant properties will be achieved after 3 days cure @ 20°C.

It is preferable to apply a sealer coat if exposure to chemicals is likely.

Please construct our Technical Department for specific recommendations.

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Coverage

A 5kg pack of Reprotec Floor Doctor Rapid yields 2.5 litres of material, sufficient for 0.5m² @ 5mm thickness. (10kg pack pro-rata).

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.

Reprotec Floor Doctor Rapid shall be applied strictly in accordance with the manufacturer's instructions.

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.

Reprotec Floor Doctor Rapid has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.