

DESCRIPTION

RMS Floor Doctor is a high strength, trowel applied, three component Epoxy resin-based mortar designed for rapid and permanent repairs to concrete and masonry surfaces. RMS Floor Doctor is a blend of epoxy Resin, Polyamine curing agent, graded siliceous aggregates and colour pigments. The mixed material is applied to a suitably prepared and primed 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.

General repairs to cementitious substrates where strength and chemical resistant properties are essential.

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
- Cures under damp, cool conditions

TYPICAL PROPERTIES

Colour: Grey

Density: 2200kg/m³

Pot Life: 50-60 minutes @ 20°C

Adhesion to concrete: >3.9MPa (concrete failure)

Compressive Strength: 72MPa

Tensile Strength: 12MPa

Taber abrasion resistance: 40mg weight loss (CS17 wheels; 1kg loads, 1000 cycles)

Thermal Coefficient of Linear Expansion: 3 x 10⁻⁵ cm/cm/°C

Maximum Service Temperature: 70°C continuous

Chemical resistance: Excellent resistance to 20% hydrochloric acid, 20% sulphuric acid, 10% citric acid, 25% sodium hydroxide, diesel and petrol. Very good resistance to 10% lactic acid, 50% phosphoric acid, 10% nitric acid and 5% acetic acid. Good resistance to many common industrial chemical

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

The prepared concrete surface shall be primed by the application of RMS Tackprime, which should be brushed well in.

A coat of primer should also be applied to any exposed re-bars.

MIXING

RMS Floor Doctor is supplied as a three component pack. Each component is pre-weighed and ready to mix. Pour the contents of the CURING AGENT container into the BASE container and mix thoroughly by spatula or low speed drill/stirrer.

The mixed resins shall be poured into a forced action 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. **Once mixed, ensure the product is either transferred straight into a scuttle or directly to the floor to reduce the speed of the exothermic reaction.**

APPLICATION

RMS Floor Doctor shall be applied whilst the primer is still 'tacky', which is usually between 10 and 90 minutes after primer application. Apply the RMS Floor Doctor by tamping and trowelling to ensure good compaction and a tight finish. Maximum thickness in horizontal applications is 50mm. For vertical applications use RMS Renderlite

EQUIPMENT CLEANING

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

CURING

RMS Floor Doctor will have hardened sufficiently after overnight cure @ 20°C to allow overcoating or 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

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

COVERAGE

A 7.5kg pack yields 3.4 litres of Epoxy mortar, sufficient for 0.68m² at 5mm thickness. A 15kg pack yields 6.8 litres of Epoxy mortar, sufficient for 1.36m² at 5mm thickness.

LIMITATIONS

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

PRODUCT DATA SHEET

| FLOOR DOCTOR



HEALTH & 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.

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

DOCUMENT VERSION

VERSION: 2

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The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on RM Suppliers' 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).
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