

RENOCEM R-EPOXY MORTAR

Repair Mortar

Description

Renocem R-Epoxy Mortar is a pre-weighed, two part solvent free epoxy resin system. Supplied as two components of base and resin hardener. **R-Epoxy binder** can easily be made into a high strength repair and jointing mortar with the addition of specially graded silica and quartz fillers. The mixed materials produce a rapid hardening adhesives and repair compound for precast and insitu concretes.

Applications

Renocem R-Epoxy Mortar is used for the rapid repair, jointing and bedding of concrete and masonry, the repair of insitu and precast concrete, filling holes and pockets, fixing steps and rungs into manholes and for the protection of steel reinforcement

Benefits

- Accelerated strength
- Improved setting times
- Non-chloride
- Non-corrosive
- Multi use
- Cold weather working

Properties

Minimum Application Temperature 5°C

Resin appearance when mixed: 'clear yellow'

Density: 'approx 1.08'

Compressive Strength

1 day: 50.0 N/mm²

3 days: 60.0 N/mm²

7 days: 70.0 N/mm²

Tensile Strength

7 days: 14.0 N/mm²

Resin Setting Times:

Air and surface temperatures as well as volume of resin in the container affect the time for which the material will remain workable:

Typical Values

10°C 50 minutes

20°C 35 minutes

30°C 10 minutes

When completely cured, the mortar and repair compound is resistant to sub-zero temperatures and is suitable for use up to 45°C.

Standards

Renocem R-Epoxy Mortar is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Compatibility

Renocem R-Epoxy Mortar is compatible with all types of EN 197 cement systems.

Storage

Renocem R-Epoxy Mortar should be stored undercover, protected from extreme temperatures and stored unopened within the range 5°C and 30°C. Moisture ingress will cause the product to harden.

Handling

Please refer to the **Renocem FC15** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Chemical Resistance

Renocem R-Epoxy Mortar when cured correctly is resistant to fresh, ground and sea waters, oil, petrol, grease and most acids, alkalis and solvents.

Cleaning: Tools and equipment should be cleaned immediately after use with an epoxy cleaner.

Packaging

R-Epoxy mortar binder is supplied in standard 4.25kg units comprising separate base (1.25kg) and hardener resin (3.0kg) which when mixed yield 3.9 litres.

Notes

Preparation: All contact surfaces must be free from oil, grease and water, concrete should be clean and dry, cracks, bolt holes or fixing pockets should be cleaned of dirt, dust and other loose materials.

Repair of precast and insitu concrete: All loose and flaky cementitious residues as well as all contamination such as mould oils and grease should be removed before the application of the repair mortar. Use of wire brushing or light grit blasting to ensure full cleansing of repair area is recommended. Wherever possible delineate the perimeter of the area to be repaired with a chase to provide a straight edge for the mortar to be placed against and to avoid feather edging.

Mixing: Complete packs of resin should be used unless dispensing and mixing is to be done by a machine designed for the accurate and safe mixing of the **R-Epoxy** resin compounds.

Precautions: Exotherm: Mixed epoxy resins will develop heat during the curing period, this could result in heat generation and possible smoking if the material is unused and kept in bulk. Care should be taken to use all mixed materials within the stated pot life or provide a well ventilated place away from other materials until any exothermic reaction has taken place and the product can be disposed off properly.

OSCRETE is a division of Christeyns UK Ltd.
Rutland Street
Bradford
West Yorkshire
BD4 7EA
United Kingdom

Telephone: +44 (0)1274 393286

Fax: +44 (0)1274 309143

e-mail: info@oscrete.co.uk

Website: www.oscrete.co.uk

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