RENOCEM R-EPOXY MORTAR

Two-Part Resin Repair Compound

DESCRIPTION

Renocem R-Epoxy is a pre-weighed, two part solvent free epoxy resin system. Supplied as a two part component of base and resin hardener. **Renocem R-Epoxy** binder can be 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 adhesive and repair compound for precast and in-situ concrete.

APPLICATIONS

Renocem R-Epoxy is used for the rapid repair, jointing and bedding of concrete and masonry, the repair of in-situ 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.

STANDARDS

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

PROPERTIES

Application temperature:	5°C
Resin Appearance: (when mixed)	Clear Yellow
Density:	1.08 g/cm³

Compressive	Strength:
1 day	50 N/mm²
3 days	60 N/mm²
7 days	70 N/mm²

Tensile	Strength:
7 days	14 N/mm²

RESIN SETTING TIMES

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

Typical	Values:
10°C	50 mins
20°C	35 mins
30°C	10 mins

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

bsi ISO 9001 Quality Management Systems CERTIFIED FM 09569 ISO 14001 Environmental Management CERTIFIED EMS 73529 ISO 45001 Occupational Health and Safety Management CERTIFIED OHS 713681

OSCRETE

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COMPATIBILITY

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

STORAGE

Renocem R-Epoxy should be protected from extreme temperature, frost and direct sunlight, the product has a minimum shelf life of 12 months if stored unopened. Moisture ingress will cause the product to harden.

HANDLING

Please refer to the **Renocem R-Epoxy** Mortar Material Safety Data Sheet but in line with normal handing procedures, personal protective equipment should be worn.

CHEMICAL RESISTANCE

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

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

PACKAGING

Renocem R-Epoxy Mortar is supplied in standard 3.00kg unit comprising separate base and hardener resin which when mixed yields 2.75 litres. **Renocem R-Epoxy** Talc filler can be supplied separately in 1.25kg bags.

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 **Renocem R-Epoxy** resin compounds.

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 in-situ 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.

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.

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