

R-EPOXY MORTAR

R-Epoxy repair 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 adhesive and repair compound for precast and insitu concretes.

Uses

- Repair of insitu and pre-cast concrete.
- Rapid repair and jointing of concrete slabs, pipe sections and masonry.
- Filling of holes and pockets in precast panels.
- Protection of steel reinforcement.
- Fixing of kerbs, tiles, manhole sets.

Properties

Minimum Application Temperature: 5°C

Resin Appearance when mixed: clear, light yellow

Density: approx 1.08

Flash Point: >130°C

Typical Compressive Strengths:

1 day: 50 N/mm²

3 days: 60 N/mm²

7 days: 70 N/mm²

Typical Tensile strength:

7 days: 14N/mm²

The type and quantity of filler/aggregate used will affect values achieved.

Chemical resistance: The cured resin is resistant to fresh water and seawater, petrol, oil, grease and most acids, alkalis and solvents.

Instructions for use

Preparation

All contact surfaces must be free from oil, grease, water as well as any other contaminants and loose materials. Concrete should be clean, dry and sound and cracks, bolt holes or fixing pockets should be cleaned of dirt, dust and other loose materials.



Repair of precast and insitu concrete units: 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 the repair area is recommended. Where ever 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.

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 in minutes are:

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.

Precautions

Exotherm: Mixed epoxy resins will develop temperature during their 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 potlife or provide a well ventilated place away from other materials until any exothermic reaction has taken place and the product can be disposed of properly.

For details on the Health and Safety aspects relating to this product please refer to the Material Safety Data Sheet.

Cleaning

All tools and equipment should be cleaned immediately after use with Ocrete Epoxy Cleaner.

Labour and environmental protection

The resin and hardener components in R-Epoxy mortar are classified as hazardous. Please refer to the Material Safety Data Sheet for advice on environmental issues, disposal and relevant PPE for the user.

Storage

Store away from heat and frost and out of direct sunlight. R-Epoxy mortar has a shelf life of 12 months if kept in dry conditions at 20°C.

Packaging

The packing of the combined base and hardener yields 3.0kg in total.

For larger applications or if used with calibrated in line mixing equipment, bulk supply of the base and hardener is available in 25 litre UN containers.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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