

Product Data Sheet
Edition 07.2008
Identification No. RC - 7

KEMREPAIR EP

High Strength Epoxy Repair Mortar



Description

KEMREPAIR EP is a high strength mortar based on a balanced blend of epoxy binder with specially graded clean silica fillers.

Where to use

- For quick repairs of spalled and damaged concrete.
- Repairing of damaged concrete floors, road and runways and for heavy duty raising on expansion joints.
- For emergency repairs of concrete where fast strength gain is required.
- For vertical and over head filling of cavities.

Advantages

- Excellent chemical resistance to a wide range of chemicals.
- Outstanding adhesion on concrete surfaces.
- Excellent mechanical properties.
- Easy to use : pre-weighed packing to avoid human errors if mixed at site.
- Provides a complete non permeable surface to repaired area.
- Suitable for dry and damp substrate.

Properties

Color	Light grey
Pot life at 20°C	1.5 hour
Curing time at 20°C	2 days
Compressive strength at 20°C	82 N/mm ²
Tensile strength after 7 days	15 N/mm ²
Flexural strength after 7 days	27 N/mm ²

How to use

Surface preparation:

All surfaces must be clean ,free from oils, grease rust, scale and all loose particles. Cement laitance must be removed. Concrete must be 28 days old. Sand/water blasting , grinding are recommended

Priming :

The use of a separate primer (Kembond EP) is recommended in order to off set the substrate which might otherwise impair the bond and hinder compaction and finishing. In addition, the primer coat gives enhanced protection to exposed reinforcement. It is essential that there should be a continuous film of binder over the entire surface, particularly in crevices. A generous coating should be applied to exposed reinforcement.

Mixing :

The hardener (part B) should first be poured into the can containing the base (part A) and drained well. The two components should be thoroughly mixed, preferably with mechanical stirrer, e.g. an electrical drill with stripper attachment until a uniform clear liquid is obtained. This liquid and the aggregate are thoroughly blended until the aggregate has been fully wetted out and a uniform consistency is obtained.

Application:

- Apply directly to the prepared substrate while the primer is still wet.
- Apply with trowel , spatula or gloves protected hand.
- Clean all tools immediately after use with PROKEM solvent.

Theoretical Coverage :

2 kg/m² /1mm thickness.

Packaging :

10 Kg. (3 components) A,B,C.

Storage:

KEMREPAIR EP has a shelf life of 6months in recommended conditions

Health and Safety

- Cleanliness in handling the resins is essential in order to prevent skin irritation.
- Some people are sensitive to epoxy resin so gloves and a barrier cream should be used when handling these products.
- If contact with the resin occurs, it must be removed before it hardens with a resin removing cream following by washing with the soap and water.
- Do not use solvent the use of goggles recommended but should accidental eye contamination occur wash thoroughly with plenty of water and seek medical treatment immediately.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.