

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 which have been specifically selected to provide the optimum level of adhesion, abrasion, impact and chemical resistance. Kemrepair EP is fast curing allowing repairs to be carried out on any concrete surface with the minimum disruption to services.														
Where to use	Kemrepair EP is designed for general application as a concrete repair compound, especially for filling in wide cracks and holes in concrete floors, broken steps, walls and other concrete surfaces. Kemrepair EP used for: • Quick repairs of spalled and damaged concrete. • Repairing of damaged concrete floors, road and runways and for heavy duty raising on expansion joints. • Emergency repairs of concrete where fast strength gain is required. • Vertical and overhead filling of cavities.														
Advantages	Kemrepair EP provides the following advantages: • Excellent chemical resistance to a wide range of chemicals. • Outstanding adhesion on concrete surfaces. • Excellent mechanical properties. • High impact strength and abrasion resistant. • 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 <table border="1"> <tr> <td>Color</td><td>Light Grey</td></tr> <tr> <td>Pot life @ 20 °C</td><td>1.5 hour</td></tr> <tr> <td>Curing time @ 20 °C</td><td>7 Days</td></tr> <tr> <td>Compressive strength</td><td>65 - 70 N/mm² @ 20 °C After 7 days</td></tr> <tr> <td>Density @ 20 °C</td><td>2 Kg/liter</td></tr> <tr> <td>Tensile strength</td><td>15 N/mm² After 7 days</td></tr> <tr> <td>Flexural strength</td><td>27 N/mm² After 7 days</td></tr> </table>		Color	Light Grey	Pot life @ 20 °C	1.5 hour	Curing time @ 20 °C	7 Days	Compressive strength	65 - 70 N/mm ² @ 20 °C After 7 days	Density @ 20 °C	2 Kg/liter	Tensile strength	15 N/mm ² After 7 days	Flexural strength	27 N/mm ² After 7 days
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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 is recommended. Ensure that floors and walls have an effective DPM installed and that residual moisture does not exceed 5% by weight (75% R.H). Apply in well ventilated areas and maintain application and subsequent cure temperatures between 7– 25 °C Priming: The use of a separate primer Kembond EP is recommended in order to offset 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. Expansion Joints: Shall be installed in accordance with local building codes. Never bridge an expansion, contraction, or construction joint.														

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. • The mixed Kemrepair EP should be applied by float or trowel to the prepared surface with the material being pressed firmly onto the surface then finished by float to give a smooth surface.
Cleaning	All tools and equipment should be cleaned immediately after use with PROKEM solvent.
Theoretical coverage	2 kg/m ² /1mm thickness
Packaging	10 & 30 Kg (3 components) A,B,C
Shelf life & Storage	Kemrepair EP has a shelf life of 12 months in dry storage conditions.
Precaution	• 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 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 of properly.
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 is 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 reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.