

Product Data Sheet

CEMROK HB

CONCRETE REPAIR MATERIALS

Description

Cemrok/HB is a cementitious low density, high build, shrinkage compensated patch repair mortar incorporating 3mm fibres.

Uses

Cemrok/HB is designed for the rapid reinstatement of both vertical and overhead repairs to concrete.

Special Properties

Cemrok/HB is designed for the rapid reinstatement of both vertical and overhead repairs to concrete. Single component – easy to use, requires only addition of water.

Low density – low slump enables rapid reinstatement.

Shrinkage compensated – and fibres incorporated, crack resistant, no loss of integrity.

Polymer modified – resistant to the ingress of water, chlorides, carbon dioxide etc.

Early cure time – can be quickly overcoated with minimum delay.

Reduces need for formwork.

Excellent bond to concrete substrate.

Can be placed by trowel, float or hand. For fast, extremely high-builds repairs with enhanced strength. Cemrok/HB can be applied by the wet spray process.

Typical Performance

Compressive strength at 18 - 22°C N/mm ²	
1 day	5.0
28 days	20
Flexural strength at 18 - 22°C N/mm ²	
28 days	2.0
Fresh Wet Density	1360 kg/m ³
Yield	25kg will yield approximately 21.4 litres
Initial Set	2 hours
Final Set	3 hours

For estimating purposes allow 1.1kg of Cemrok/HB per m²/mm thickness, i.e. 1 bag, (25 kg), will approximately cover 2.14 m² at 10 mm thickness.

Preparation and Priming

All weak and friable concrete should be mechanically removed back to a sound substrate. When breaking out around steel rebar the full circumference should be exposed to at least 15mm behind

the bar (sufficient for the fingers of a gloved hand to get through for placing) and 50mm along the bar beyond the corroded length.

When cutting back, feather edging must not be permitted. Saw cut edges to a minimum depth of 10mm should be used to outline the repair area.

All areas to be repaired must be free from unsound material, dust, grease and any contaminants which may affect the bond of the substrate to the repair mortar. Any saw cut edges should be roughened and reinforcement cleaned to bright steel using approved methods and treated with Cemrok Steel Primer prior to application of Cemrok/HB. The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water.

A single coat of Cemrok Concrete Primer A diluted to one part primer : three parts water (by volume) should be scrubbed into the pre-dampened substrate at a coverage rate of 0.15 litres/m².

The repair material should be applied “wet on wet” for maximum bond

Mixing and Placing

Application should not progress if air/substrate temperature is below 5°C.

Cemrok/HB should be mixed using water which complies with BS EN 1008 (as for concrete).

Cemrok/HB should be mixed in a suitable container using either an electric (1kW) or pneumatic power tool. Larger amounts MUST be mixed in a FORCED ACTION paddle mixer.

25kg of Mortar HB should be added to 6 litres of water, progressively mixing until a good to wet mortar consistency is achieved. DO NOT OVER MIX THE MATERIAL. Mixing of part bags should not be attempted.

When placed by trowel, float or hand the rapid thixotropic nature of Cemrok/HB allows single application build up thicknesses of:-

60mm or more on soffit surfaces

80mm or more on vertical surfaces.

Dependent on the extent of the mechanical key, it may be necessary to provide shutter support when working on reveals to improve compaction.

Priming of the substrate is essential to provide an adequate key. Very porous surfaces should be primed 24 hours before applying mortar. The substrate shall receive a scrub coat of CMS Pozament Cemrok Concrete Primer A. See separate data sheet before applying Cemrok/HB. Scrub the mortar into the primer coat to form a bonding key and build up from this layer. Subsequent layers should be re-primed before building up.

Application thicknesses depend on the substrate and great care must be taken to work the initial layer well into the prepared surface before attempting to build up thicker layers.

Finishing can be done with wood or steel float but wooden floats give a better surface for coating to adhere to.

Curing

Any mortar exposed to wind or drying conditions should be suitably protected, preferably by coating with a wax-free Curing Agent.

Any mortar that is likely to be subject to low temperature immediately after placing or during its early strength development should be protected by covering with hessian or other insulative material. For working in cold weather reference should be made to BS8110 Pt. 1 Section 6.

Cemrok/HB should be cured in accordance with good concreting practice.

Quality Control

All CMS Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Packaging and Storage

Cemrok/HB is available in nominally 25kg sacks, palletised and shrink wrapped. Cemrok/HB may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised Cemrok/HB should be stored in cool dry areas clear of the ground sheeted or under cover and stacked not more than two pallets high.

The product should be used on a first in – first out basis.

Shelf life is minimum 6 months but could be in excess of 9 months subject to temperature and humidity.

Health & Safety

Health and safety advice, which must be followed and can be found on Material Safety Data Sheet 40/A. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement R38 - Irritating to skin, R41 - Risk to serious damage to eyes, S26 - In case of contact with eyes, rinse immediately with water and seek medical advice, S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children Irritating to eyes and skin.

Information Prices and Ordering

For ordering contact: 01283 550060.

Fax: 01283 550486.

For all other enquiries contact: 01283 554800.

NB: Please give not less than 48 hours notice.

Further Information:

Please call the Technical Centre on: 08701 116 116.