

Product Data Sheet

HIGH PERFORMANCE REPAIR MORTAR (CEMROK AM)

CONCRETE REPAIR AND INSTALLATION

Description

High Performance Repair Mortar is a pre-blended cementitious mortar which contains acrylic co-polymers and polypropylene fibres to ensure an extremely high bond in wet conditions and to provide high build qualities.

When mixed with water it produces putty like mortar with an excellent wash out resistance.

It has been designed to comply with D.o.T. BD 27/86 clause 6.

Uses

High Performance Repair Mortar is a pre-blended rapid setting structural repair mortar specifically designed for hand applied concrete repairs.

High Performance Repair Mortar can be used in the repair of highway structures, i.e bridge columns, deck soffits, beams, abutments, parapets and retaining walls. Also in marine structures, viaducts and RC framed buildings.

High Performance Repair Mortar can be used in wet conditions but should not be placed underwater.

Example uses would include the repair or caulking of precast tunnel segments or any hand applied concrete repair where a rapid finish and return to service is required.

Special Properties

- A rapid set combined with thixotropic additives and fibres allows thicknesses in excess of 200mm to be progressively built up and finished. Suitable for tidal conditions.
- Contains no chlorides.
- Equivalent sodium oxide content is less than 3Kg/m³.
- Fibre reinforced – resistant to micro cracking.
- Shrinkage compensated – reduced risk of cracking, high bond strength.
- Polymer modified – resistant to ingress of water, carbon dioxide, chlorides etc.
- Single component – easy to use.

Typical Performance

Compressive strength at 18-22° C N/mm ²		
1 day	7 days	28 days
20.0	35.0	45.0
Flexural strength N/mm ²		
7 days		28 days
5.0		7.0
WSR		0.15
Pot Life		15 minutes (temperature dependant)
Shrinkage		Less than 0.001%
Initial Set		60 – 80 minutes

Yield

Based on the optimum water:powder ratio 0.15

Litres product/25kg bag	25kg bags/m ³ product
14.7	68

These figures are approximate and take no account for site wastage.

Mixing Instructions

High Performance Repair Mortar should be mixed using water which complies with BS EN 1008 (as for concrete).

High Performance Repair Mortar 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 **High Performance Repair Mortar** should be added carefully to 3.75 litres of water, progressively mixing until a putty like consistency is achieved.

(Initially the mortar will be very stiff but will become more fluid during the mixing process. Longer mixing time enhances the workability).

Once mixed the material must not be re-worked.

Preparation & 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 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 **Steel Primer** prior to application of **High Performance Repair Mortar**.

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water.

A single coat of **Acrylic Primer** 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.

Packaging and Storage

High Performance Repair Mortar is available in nominal 25kg sacks, palletised and shrink wrapped. **High Performance Repair Mortar** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised **High Performance Repair Mortar** 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 3 months but could be in excess of 6 months subject to temperature and humidity.

Quality Control

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

Clean up and Spillages

Dry powders should be swept up and disposed of in accordance with the Local Authority.

Information, prices & ordering

For technical information, pricing and to place orders contact our Sales Office on the following:

Telephone: **08444 630046** Fax: **08443 099703**

Email: pozament@tarmac.co.uk

Visit our website: www.pozament.co.uk

Pozament - Tarmac Building Products Ltd.,
Swains Park Industrial Estate, Park Road,
Overseal, Swadlincote, Derbyshire DE12 6JT.

Health & Safety

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

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk of 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