

Structural Repair Mortar

FORMERLY FLEXCRETE FASTFILL WP

PRODUCT DESCRIPTION

A single component, water-based (VOC free), polymer modified, fibre reinforced, Portland cement based plugging and sealing compound. When mixed with water, it exhibits unique hydraulic properties to produce a rapid setting mortar which can arrest water seepage and infiltration through joints, cracks or porous areas in concrete and masonry structures.

INTENDED USES

Specifically designed for arresting water seepage and infiltration under pressure through cracks, joints, and voids in concrete and masonry. Intercrete 4809 sets in 2 minutes at 20°C (68°F), yielding a durable, high strength mortar which provides rapid sealing and jointing in and around pipework or for forming fillets in tanking situations.

PRACTICAL INFORMATION FOR INTERCRETE 4809

Volume Solids	100%			
Density	2150kg/m ³ (134lb/ft ³)			
Typical Thickness	Minimum 20mm (approximately ¾ inch)			
Practical Coverage	An 8kg pack covers approximately 0.212m ² at 20mm thickness. Practical coverage will depend upon the surface profile and porosity of the area being coated and appropriate losses must be taken into consideration			
Method of Application	Hand Moulding			
Shelf Life	12 months at 20°C (68°F).			
Pack Size	8kg bag			
Drying Time	Overcoating interval with self			
Temperature	Touch Dry	Hard Dry	<i>Minimum</i>	<i>Maximum</i>
20°C (68°F)			Not applicable	Not applicable

COMPLIANCE AND CERTIFICATION

When used as part of an approved scheme, this material has the following certification:



Protective Coatings

Structural Repair Mortar

SPECIFICATION CLAUSE

The repair mortar shall be a single component, polymer-modified, fibre reinforced, Portland cement-based plugging and sealing compound, which is physically and chemically compatible with the host concrete.

The cured repair mortar shall set in 2 minutes at 20°C (68°F), achieving a compressive strength of 4MPa in 1 hour and 26MPa in 28 days.

SURFACE PREPARATION

Concrete

Mechanically remove all damaged concrete and masonry back to a sound core. Joints and cracks should be square cut or ideally dovetail cut out to a minimum depth and width of 20mm. On cutting back, feather edges and V-cuts must be avoided. The perimeter of the area should be broken to a depth of 10mm preferably using a power chisel.

Concrete should have a minimum strength of 20MPa. All surfaces should be clean and free from laitance, curing compounds, release agents, efflorescence, grease, oil, dirt, organic growth, old coatings and loose or disintegrating concrete. Smooth surfaces should be roughened, using high pressure water jetting or similar techniques. The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water.

APPLICATION

Mixing

Intercrete 4809 should be mixed by hand in a clean plastic or rubber bowl. Ideally no more than 0.5kg should be mixed at a time using an initial mix ratio by volume of 1 part of water to 3-4 parts of Intercrete 4809. Adjust the mix ratio as necessary to give a putty like consistency. Mixing time must not exceed 2 minutes.

Work Stoppages / Clean Up

Clean all equipment immediately after use with clean water.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

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PRODUCT CHARACTERISTICS

Placing

The mixed material should be formed into a ball shape in a gloved hand until slight stiffening occurs. The Intercrete 4809 should then be forced into the void with a minimum of working and held in place firmly for 1-2 minutes until setting occurs.

When sealing joints in pipework or forming a fillet at a wall/floor angle, a steel float or coving trowel may be used to produce the desired finish.

Curing

Once the Intercrete 4809 has been placed and stiffened sufficiently, the surface should be kept in a damp condition for a minimum of 15 minutes to aid curing.

APPLICATION TIPS

- Experiment with water contents to achieve different setting times before progressing.
- Use warm water to accelerate setting further and in cold conditions.
- Half of a tennis ball or an old hard hat is an ideal mixing vessel.

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TECHNICAL DATA / MECHANICAL CHARACTERISTICS

Standard and Property	BS EN 1504-2 Requirement	Result
BS4551 Compressive Strength Development @ 20°C		1 hour : 4.0 MPa 2 hours : 5.0 MPa 4 hours : 8.0 MPa 1 day : 11.0 MPa 7 days: 19.5 MPa 28 days: 26.0 MPa

Note: The properties given above are obtained from laboratory tests: results obtained from on-site testing may vary according to site conditions.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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