

RIW CEMENTFILL WP

Cementfill WP is a single component, polymer modified, fibre reinforced, portland cement based plugging and sealing compound.

BENEFITS

- l Rapid setting, non-shrink mortar
- l Only requires mixing with clean water
- l High bond strength, to ensure durable watertight seal
- l Non-toxic when cured

APPLICATIONS

- l Used to arrest water seepage and infiltration under pressure
- l Rapid sealing and jointing in and around pipework

APPLIED TO

- l Concrete
- l Masonry

RIW CEMENTFILL WP

TYPICAL USES

The material is generally used, when required, prior to application of other RIW waterproofing products.

Cementfill WP when mixed with water exhibits unique hydraulic properties to produce a rapid setting mortar, used for arresting water seepage and infiltration under pressure through joints, cracks and porous areas or voids in concrete and masonry structures.

The product is also ideally suited for rapid sealing and jointing in and around pipework, and can also be used to plug dovetail shaped rebates, when providing mechanical fixings through waterproof renders / coatings, etc.

CONSTRUCTION

PREPARATION

Mechanically remove all damaged concrete and masonry back to a clean sound substrate, free from laitance and other surface contaminants.

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 stepped to a depth of 10mm by means of saw, disc cutting or preferably using a power chisel.

The areas to be treated must be free from all unsound material, ie ; dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, and all loose material and surface laitance removed by using high pressure water techniques.

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

MIXING

Cementfill WP 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 Cementfill WP.

Adjust the mix ratio as necessary to give a putty like consistency. Mixing time must not exceed 2 minutes.

Add slightly more powder to decrease setting time, and for even quicker setting times, use warm water.

PERFORMANCE & COMPOSITION

TECHNICAL DATA

Mixed Colour	Concrete grey
Mixed Density	2150 kg/m ³
Application thickness	20mm maximum
Application temperature	5 – 25° C
Final setting time	2-3 mins

MECHANICAL CHARACTERISTICS (TYPICAL)

Compressive Strength: BS 4551 Tested at 20°C	
1 hour	10 N/mm ²
2 hours	16.5 N/mm ²
4 hours	25 N/mm ²
1 day	34.5 N/mm ²
7 days	45 N/mm ²
28 days	66 N/mm ²

The above performance figures are typical values and should not be considered a product specification.

APPLICATION

The mixed material should be moulded into a ball shape in a gloved hand until slight stiffening occurs. Cementfill WP 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, a steel float or coving trowel may be used to produce the desired finish.

CLEANING

All tools should be cleaned with water immediately after use.

CURING

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

SAFETY

Full health and safety instructions are contained on the product material safety data sheets and these must be referred to before use.

SUPPLY

AVAILABILITY

All RIW products can be obtained through Builders Merchants or approved stockists. A list of approved stockists is available from RIW's offices.

PACKAGING

Pack size	8 kg bag in plastic tub
Yield	8 kg packs yield 4.25 litres of mortar
Coverage	2.15 kg/mm per square metre

STORAGE

Store the containers in dry, frost free, conditions.
Shelf life in unopened containers at 20°C is 12 months.

TECHNICAL SERVICES

The Technical Department is available to advise on individual projects and to prepare and assist in the preparation of specifications and drawings. A list of experienced applicators of RIW materials is available from RIW's offices.

The information in this literature was correct at the time of going to press. However, we are committed to continually improving our products and reserve the right to change product specifications.

For the latest information, please consult RIW. Conditions of use are beyond our control, therefore we cannot warrant the results to be obtained.

RIW

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