

SHRINKAGE CONTROLLED, POLYMER MODIFIED, FIBER REINFORCED REPAIR MORTAR DESIGNED FOR SPRAYING

Description

REPCON FC is supplied as a single component, ready to use blend of dry powders and fibres which requires only the addition of clean water to produce a highly consistent, hand and spray grade, repair mortar suitable for most structural and load bearing repairs.

Uses

REPCON FC is suitable for wet spraying and hand application in a wide variety of repair applications, and is particularly well suited to vertical and overhead repairs. Typical applications would include, but not be limited to, the following:

- Mass infill to large areas
- Repairs to irregular profiles
- Excellent for repairs to fire-damaged concrete
- Fast track repair programmes, where rapid application at high volume is required
- Single layer, high build applications.

Advantages

- **Cost effective** - shrinkage control enables repairs to be completed, right first time". Very low rebound is an additional cost benefit
- **Enhanced durability** - works in tandem with extremely low permeability to prolong effective working life
- **Compatibility** - aligns performance closer than ever before, to that of host concrete
- **User friendly** - specifically developed to provide an easy to-apply product, suitable for local conditions
- **Definable performance** - positive benefits are easily demonstrated via a single, simple measurement.
- Resistant to Alkali Silica Reaction or Alkali Aggregate Reaction.

Technical Data

The following typical results were obtained at a water:powder ratio of 0.18.

Drying shrinkage to ASTM C 157-93 28 days	<1000 microstrain
Flexural strength (BS 6319 Pt.3)	>7 N/mm ² at 28 days
Tensile strength (BS 6319 Pt.7)	>2.5 N/mm ² at 28 days
Compressive strength hand application (BS 1881 Pt.1161) 1 day 7 days	Approx 20N/mm ² Approx 45N/mm ²
Fire rating	Class A1 (EN 1504-3 cl 5.5)
Potential Alkali Reactivity Expansion % (ASTM C1260)	<0.1%

Instructions for use

REPCON FC should be mixed and applied in strict accordance with the Product Method Statement, a copy of which may be obtained from your nearest FCSC office.

Estimating

Supply

REPCON FC : 25 kg bags

Yield

REPCON FC : approx 13.5 litres

(at water addition of 4.25ltr/bag) per 25kg bag

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Packaging

25 kg bag

Storage and Shelf Life

REPCON FC has a shelf life of 6 months if kept in a dry environment, in its original packing. If stored in conditions of high temperature and/or humidity, the shelf life may be reduced to as little as 4 months.

Limitations

REPCON FC should not be used when the ambient temperature is below 5°C and falling.

REPCON FC should not be part mixed, nor part bags used.

REPCON FC should not be exposed to running water either during application or prior to final set.

Fire

REPCON FC, is non-flammable and thus presents no fire hazard.

For further information, please refer to the Product Material Safety Data Sheet for REPCON FC.

Safety precautions

REPCON FC contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Note

All Technical Data Sheets of FIRST CHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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