

RENOCEM FC30 Standard

Repair Compound

Description

Renocem FC30 is a one part repair compound for structural and cosmetic concrete repairs. **Renocem FC30** is specially developed to be used in precast applications and has a setting time to suit rapid repair of concrete structures.

Renocem FC30 is a single component cementitious repair compound blended with polymer additives, it requires only the addition of water to give an easy to use mortar for fast setting repairs that develop high early strengths.

Applications

Renocem FC30 is used for the repair of insitu and precast concrete, including the filling of surface voids and blowholes.

Benefits

- Accelerated strength
- 30 minute setting time @ 20°C
- Non-chloride
- Non-corrosive
- Multi use
- Reduced shrinkage

Properties

Renocem FC30 meets the requirements of EN 1504-3.

Compressive Strength @ 28 days - 50.0N/mm²

Compressive strength: class R4

Chloride Ion content: ≤ 0.05%

Adhesive bond: ≥ 2.0 MPa

Restrained shrinkage: ≥ 2.0 MPa

Elastic modulus: ≥ 25 GPa

Freeze thaw: ≥ 2.0 MPa

Capillary Absorption: ≤ 0,5 kg m⁻² h^{-0,5}

Minimum Application Temperature 5°C

Approximate Yield for a 25kg pack

12.75 litres

Workability Time

(Temperature)	(Minutes)
5°C	55
10°C	40
20°C	30

Ensure that the material is placed during its open life, discard hardened materials. Do not re-temper.

Standards

Renocem FC30 is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Compatibility

Renocem FC30 is compatible with all types of EN 197 cement systems.

Storage

Renocem FC30 should be stored undercover, protected from extreme temperatures and stored unopened within the range 5°C and 30°C. Moisture ingress will cause the product to harden.

Handling

Please refer to the **Renocem FC30** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Packaging

Supplied in 25 kg bags.

Notes

Preparation: Ensure that the substrate is free from oil, grease or other contaminants. Thorough saturation of the repair area with clean water is essential to ensure full adhesive bond of the mortar. Ensure that no free water remains before starting the mortar application.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

Priming: Thoroughly soak the substrate with clean water in advance of the application. Apply a brushed slurry application of **Renocem FC30** / water to the pre-soaked repair area at the ratio of 4:1 by volume.

Mixing: The product should be mixed in a clean vessel with clean tap water. Use a mechanical mixer with a slow speed drill and paddle. Place 3.0 litres of water into the container then add the powder to the water to produce the required consistency adding up to a further 0.35 litres of water if needed. Smaller mixes can be made by hand using the above ratio (max 15% water by volume). Excess water addition may result in shrinkage and cracking.

Placing: Ensure that the material is placed during its workability time. Discard hardened material. Do not re-temper. The material can be applied by trowel, or by hand. When the product is used to fill blowholes, rub the material into the pores directly using a cloth or scrape it in with a trowel. Remove all excess material. If larger voids are to be repaired coarse sand or a fine aggregate may be added up to 50/50 to the mortar to extend the **Renocem FC30**. In such cases, setting time and final strengths may be affected. Wash all tools with water before the mortar hardens.

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