

High Strength, Non-Shrink, Free Flowing Repair Mortar

Description

CP repair mortar has a blend of Portland cement, special aggregates, and additives to increase the physical properties. CP repair mortar is non shrinking material and free from segregation and water bleeding. This is specially designed for quick and durable floor repair application. It is recommended to contact Concrete Planners technical team for complicated jobs.

Uses

- Large volume concrete repairs
- Floor repairs
- Pothole repair
- Joint repair

Features

- Primer not mandatory
- Excellent bond to the concrete substrate
- Very high and ultimate compressive strength
- Low permeability: provides very good protection against Carbon dioxide and chlorides
- Self-compacting: ensures complete void filling of the repair area
- Versatile: Suitable for application thickness of 10mm - 75mm
- Low alkali content

Physical properties


CP Mortar	@ 27 ± 1°C
Fresh wet density	2350 kg/m ³
Compressive Strength BS 1881, Part 116: 1983	
After 3 days	> 20 N/mm ²
After 7 days	> 35 N/mm ²
After 28 days	> 55N/mm ²



Tensile Strength


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ASTM C 293-79 $\geq 7 \text{ N/mm}^2$ (7 days)
 $\geq 8 \text{ N/mm}^2$ (28 days)

Slant Shear Strength/
Bond Strength
BS 6319, Part 4 $> 4.0 \text{ N/mm}$

Pack size 25 kgs bucket

Application

Substrate Preparation

The substrate must be hard, sound and free of dust, dirt and other loose material. Any exposed steel must be cleaned, free of corrosion and to be treated with zinc rich primer. In instances where there is a significant loss of section, the steel may have to be replaced.

The edges of the repair area should be groove cut to a minimum of 10 mm to eliminate feather edges and better anchor to the substrate. Make the substrate wet before pouring the mix. Use wet cloth or sponge to make the substrate wet do not pour over water on the substrate.

Mixing

The amount of water required for mixing may vary depending on site conditions but should not exceed 3.90 litres per 25kg.

Add 90% of the pre-measured mixing water in a clean container and then slowly add. Mix thoroughly for 2 minutes using a heavy-duty slow speed drill (400 - 600 rpm). Then add the remaining 10% water if necessary and continue mixing for another 1 minute. This will ensure a smooth even consistency of the micro concrete. Place the material immediately after mixing. Note: For large repair areas or multiple bags, mixing a forced action mechanical mixer should be used.

Joint repair

Maximum length should not exceed more than 6m and width should not exceed more than 600mm. For wider repair please contact CP team.

For floor section repair

Maximum length of repair section should not exceed 4m to 6m and aspect ratio of repair section should be within 1: 1.5. It is recommended to add aggregates for layer thickness 20mm ad above.

Curing

On method for minimum 28 days. removal of formwork, repaired areas should be thoroughly cured with curing compound or water curing

Storage and shelf life

CP Repair mortar should be stored in unopened packaging and not to be stored in direct sun light. If stored correctly, as detailed above, the shelf life of this product is 6 months from the date shown on the packaging.

Precautions

Avoid contact with eyes and prolonged contact with the skin. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes. In case of contact with eyes, flush with ample amount of clean water and seek medical advice if necessary.

Disposal/ spillage

Spillage of the product should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

Note

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.