

## MORTAR FOR NON-STRUCTURAL REPAIR

### PRODUCT DESCRIPTION

CEMFIX® REPAIR is a special formulated dry mixed mortar based on Low Alkali Portland Cement with fine sand and polymers. It is developed for manually repair works on damaged constructions.

### APPLICATIONS

- Repair works on damaged concrete or masonry structures (eg. cavities and damaged corners)
- Can be applied to both vertical and horizontal surfaces
- For levelling and repair works of floors
- Can be applied on several different surfaces such as stairways, walls, ceilings,...
- There is no specific limit for thickness



### TECHNICAL DATA

**Water content 16%. 50% RH at a temperature of 20°C during hardening process**

<b>Flexural strength</b>	≥ 5 N/mm <sup>2</sup> after 28 days
<b>Compressive strength</b>	≥ 45 N/mm <sup>2</sup> after 28 days
<b>Adhesion to underfloor</b>	≥ 2 N/mm <sup>2</sup>
<b>Volatile organic compound value</b>	free of ammonia and formaldehyde
<b>Grain size</b>	max. 1,0 mm
<b>Free shrinkage</b>	< 0,4‰ (measured at 50% RH, after 28 days)
<b>Ph-value</b>	approximately 11,5
<b>Dry powder density</b>	approximately 1,7 g/cm <sup>3</sup>
<b>Wet volume weight</b>	≥ 2,3 – 2,4 g/cm <sup>3</sup>
<b>Water stability</b>	water-stable
<b>Material consumption</b>	approximately 1,75 kg per mm thickness/m <sup>2</sup>

### TECHNICAL INFORMATION

<b>Water addition</b>	16% (4 litres/25 kg bag)
<b>Minimum substrate temperature</b>	+6 °C
<b>Open time</b>	30 – 50 minutes, depending on the ambient temperature
<b>Hardening time</b>	45 min – 2 hours jellifying starts, depending on the temperature 2 – 3 days before removing formwork, depending on the temperature
<b>Storage</b>	Six months in dry conditions, max. 20°C and 50% RH

**SUBSTRATE PREPARATION**

CEMFIX® REPAIR must be applied onto a well-prepared, hard, solid surface, free of contamination. Dust, cement residues, greases or other soft materials (such as asphalt) must be removed. Ways of doing this include shot-blasting, sand-blasting or scarification. Concrete contaminated by oil or grease must be treated first with flame gunning and/or an appropriate degreasing agent. To optimize adhesion, it is possible to moisten the substrate slightly, or to apply a CEMPRIME AC adhesive layer. As soon as the CEMPRIME AC becomes tacky, the CEMFIX® REPAIR can be applied.

**MIXING**

CEMFIX® REPAIR can be mixed using a standard concrete mixer or an electric drill with a mixing rod. Use only potable water with a maximum temperature of 20 °C for mixing: 4,0 litres (16%) per 25 kg bag. First add the calculated amount of water to the bucket, and then the amount of dry mixed powder until the right workability is achieved. Do not mix more material than can be processed in 20-25 minutes. At high temperatures in the summer time, the material has an open time of about 15 – 25 min. When the material begins to harden, do not mix it again, and do not add any water..

**APPLICATION**

CEMFIX® REPAIR is applied and finished with a spatula or brick trowel. For smaller applications a soft rubber spatula can be a good tool. For damaged corners use a mould to prevent the material to flow away. If filling up bigger cavities, it is recommended to fill up with material so it creates a small bulge. After the material has hardened for approx. 30 min, use a moist trowel to smooth the surface. If there is need to have a smooth surface cut the bulge with

a sharp edged spatula after approx. 60 min. curing time. Use a clean wet sponge to give a smooth looking surface.

CEMFIX® REPAIR contains a small but important amount of polymers that increase the adhesion to the substrate. Hardened material is particularly hard and very difficult to cut. Do not work at temperatures below +5°C.

**CLEANING**

All tools and equipment should be cleaned immediately with water.

**HEALTH AND SAFETY**



Contains cement. Wet cement is corrosive. Protect your eyes and avoid prolonged contact with the skin. Keep out of reach of children. For further information, consult the CEMFIX® safety sheet.

**Transport:** not a classified product.

**IN GENERAL**

The general information provided in this technical description, application advice, and other recommendations are based on research and experience. Users themselves must determine whether the products are suited for their specific application. The specified properties refer to average values, obtained at 20°C and 50% RH and prepared according to the current state of the art. Written and oral recommendations in accordance with our general delivery terms are entirely free of obligation.

These technical descriptions supersede all previous ones.

Please take account of different local conditions, such as ventilation, floor temperature, air humidity,...

High air humidity and low temperatures delay the bonding and hardening; high temperatures accelerate them.

Consult our website [www.cemart.eu](http://www.cemart.eu) to download the most recent version of the technical information sheet.



Cemart NV, Maatheide 76E, B-3920 Lommel



**Class R1 cfr. EN 1504-3 : 2005 – Cementitious, polymer modified mortar for structural repair of concrete structures**

<b>Compressive strength</b>	≥ 10 MPa	<b>Thermal compatibility, part 1 Freeze-thaw</b>	NPD
<b>Chloride ion content</b>	≤ 0,05 %	<b>Skid resistance</b>	NPD
<b>Adhesive bond</b>	≥ 0,8 MPa	<b>Capillary absorption</b>	NPD
<b>Restrained shrinkage / expansion</b>	≥ 1,5 MPa	<b>Reaction to fire</b>	A1 <sub>fl</sub> <sup>(1)</sup>
<b>Carbonation resistance</b>	NPD	<b>Release of dangerous substances</b>	None
<b>Elastic modulus</b>	NPD		

(1) See decision of the commission 96/603/EC

NPD : No Performance Declared