

MORTAR FOR NON-STRUCTURAL REPAIR

PRODUCT DESCRIPTION

CEMPAC® 520 is a manually applied repair mortar based on high quality alumina cement and chemical admixtures. This mortar is intended for manual application of layers between 2-50 mm in one operation. For thicker applications CEMPAC® 520 can be mixed with pure sand.

APPLICATIONS

- Filling holes in joints
- Gluing concrete elements
- Levelling and repairing floors, including slopes and inclinations
- can be used to level a variety of sub-layers, including pre-poured concrete elements and to repair stairs, walls, ceilings,...



TECHNICAL DATA

Water content 17%. 50% RH at a temperature of 20°C during hardening process

Flexural strength	≥ 7 N/mm ² after 28 days
Compressive strength	≥ 30 N/mm ² after 28 days
Adhesion to underfloor	≥ 2 N/mm ²
Volatile organic compound value	free of ammonia and formaldehyde
Grain size	max. 1,0 mm
Free shrinkage	< 0,8‰ (measured at 50% RH, after 28 days)
Ph-value	approximately 11,5
Dry powder density	approximately 1,6 g/cm ³
Wet volume weight	≥ 2,0 g/cm ³
Water stability	water-stable
Material consumption	approximately 1,75 kg per mm thickness/m ²

TECHNICAL INFORMATION

Water addition	17% (4,25 litres/25 kg bag)
Minimum substrate temperature	+6 °C
Open time	20 – 30 minutes, depending on the ambient temperature
Hardening time	1 – 2 hours for light traffic, depending on the temperature 3 – 24 hours for heavy traffic, depending on the temperature
Storage	Six months in dry conditions, max. 20°C and 50% RH

SUBSTRATE PREPARATION

CEMPAC® 520 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 CEMPAC® 520 can be applied.

MIXING

CEMPAC® 520 can be mixed with a concrete mixer, just as normal dry concrete or by using an electric drill with a mixing rod. Use some potable water with a maximum temperature of 20 °C for mixing: 4,25 litres (17%) per 25 kg bag. Do not mix more material than can be processed in 20-25 minutes. Once the material is mixed, it must be used within 30 minutes. When the material begins to harden, do not mix it again, and do not add any water..

PERFORMANCE

CEMPAC® 520 is applied and finished with a manual spatula. Apply 2 to 50 mm thick in one operation. After about 25 minutes, it can be formed using a spatula. After about 45-60 minutes, use a wet sponge to smoothen the surface. It is important not to mix too large a volume, so that there is sufficient time to apply the material before hardening begins.

CEMPAC® 520 contains a small but important amount of polymers that increase the adhesion to the substrate. Semi-hardened material can be completely shaped or cut so that the necessary applications can be performed without problems. 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 CEMPAC® 520 safety sheet.

Transport: not a classified product.

שייוק בלעדי:

טכנולוגיית (1992) בע"מ

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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 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 non-structural repair of concrete structures

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

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

NPD : No Performance Declared