

FAST-SETTING MORTAR FOR INJECTION OF CRACKS OR CAVITIES IN/UNDER CONCRETE SLABS

PRODUCT DESCRIPTION

CEMPAC® 550I is a specially formulated injection mortar based on high-quality aluminium cement and polymers. CEMPAC® 550I mortar is easy to apply, and has very high compressive strength and low shrinkage.

APPLICATIONS

- Rapid filling of cracks or cavities under concrete slabs of roads, airfields,... when it is important that heavy traffic is possible again after a short time
- Pouring under uneven ("pumping") slabs on concrete roads
- Injection into cracks in concrete slabs



TECHNICAL DATA

Water content 26%. 50% RH at a temperature of 20°C during hardening process

Flexural strength	≥ 10 N/mm ² after 28 days
Compressive strength	≥ 50 N/mm ² after 28 days
Adhesion to underfloor	≥ 3 N/mm ²
Volatile organic compound value	free of ammonia and formaldehyde
Grain size	max. 0,2 mm
Free shrinkage	<0,1‰ (measured at 50% RH, after 28 days)
pH value	approximately 11,5
Fluidity (flow ring test SS 923519 (diam. 50x23 mm))	150 mm
Dry powder density	approximately 1,5 g/cm ³
Wet volume weight	> 2,0 – 2,3 g/cm ³
Water stability	water-stable (expansion under water < free shrinkage)

TECHNICAL INFORMATION

Water addition	26% (3,9 litres/15 kg bag)
Minimum substrate temperature	+6 °C
Open time	10 – 25 minutes, depending on the ambient temperature
Hardening time	1 – 6 hours before heavy traffic, depending on the temperature. If extra heavy loading is expected, let the mortar harden as long as possible.
Storage	Six months in dry conditions

SUBSTRATE PREPARATION

No specific preparation is necessary.

MIXING

CEMPAC® 550I can be mixed in a bucket with an electric mixer with mixing rod. Use some potable water with a maximum temperature of 20 °C for mixing in a proportion of 26%: 3,9 litres per 15 kg bag. Once the material is mixed, it must be used within 15 minutes. When the material begins to harden, test it, then do not mix it again, and do not add any water.

PERFORMANCE

CEMPAC® 550I is injected by means of a low-capacity injection pump. Make sure that the pump is continuously filled with freshly mixed material. The fluidity is good, whereby cracks or cavities (in and/or under the concrete plate) are filled with the injection mortar. Place injection nipples at most 2 metres apart, so that it is possible to watch how far the pumping of the material progresses. Do not work at temperatures below +5°C.

CLEANING

All tools must 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® 550I 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 in order to download the most recent version of the technical information sheet.

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