

GROUT MIX

PRODUCT DESCRIPTION

CEMPAC® 553 is a pumpable, cement-bonded grout based on low alkaline Portland cement and polymers. CEMPAC® 553 is a pre-mixed dry powder, designed as a mortar having low shrinkage, high strength, and low viscosity in order to remain pumpable. CEMPAC® 553 is water resistant.

APPLICATIONS

- Usable in both thin and thick layers
- Very good adhesion to the substrate
- Versatile grout for pouring beneath machines, pylons, and columns



TECHNICAL DATA

Water content 19%. 50% RH at a temperature of 20°C during hardening process

Flexural strength	≥ 10 N/mm ² after 28 days
Compressive strength	≥ 60 N/mm ² after 28 days
Adhesion to underfloor	≥ 1,5 N/mm ²
Volatile organic compound value	free of ammonia and formaldehyde
Grain size	max. 2 mm
Free shrinkage	< 0,15‰ (measured at 50% RH, after 28 days)
pH value	approximately 12
Fluidity (flow ring test SS 923519 (diam. 50x23 mm))	130 – 150 mm
Dry powder density	approximately 1,7 g/cm ³
Wet volume weight	> 2,0 g/cm ³
Water stability	water-stable (expansion under water < free shrinkage)

TECHNICAL INFORMATION

Water addition	19% (4,75 litres/25 kg bag)
Minimum substrate temperature	+6 °C
Open time	10 – 25 minutes, depending on the ambient temperature
Hardening time	1 – 2 hours, depending on the temperature Three days to one week after application for use at full load.
Storage	Six months in dry conditions

SUBSTRATE PREPARATION

CEMPAC® 553 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 first must be treated with flame gunning and/or an appropriate degreasing agent.

MIXING

CEMPAC® 553 can be mixed both manually in a bucket with an electric mixer with a mixing rod, and with an automatic, continuous mixing pump (without mortar hopper). Use some potable water having a max. temperature of 20 °C in a proportion of 19% for mixing: 4,75 litres/25 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® 553 is applied in thicknesses between 6 and 150 mm in one operation. Make sure that the pump is continuously filled with freshly mixed material. Absorbent substrates are preliminarily coated with CEMPRIME AC or at least moistened. Pouring must be performed in one continuous operation from one side in order to avoid entry of air bubbles.
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® 553 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.
