



## **CONCRETE B-30 446**

Cement mortar, 30MPa

Areas of application:	<ul> <li>The mortar is intended for making cement subfloors and floors as well as similar pressure, backing layers and layers shaping a slope, inside and outside buildings</li> <li>Used as a base in a floor heating system, floating on thermal insulation, separating layer and linked with a bed.</li> <li>Suitable for anchoring fence piles.</li> <li>Also other elements poured directly at a construction site can be made of this mortar, such as: foundations, lintels, stairs, ceilings - after prior installation of proper reinforcement.</li> <li>Minimal layer thickness: base binding with the groundwork &gt; 25 mm, base on separating layer &gt; 35 mm, base floating on the thermal and/or acoustic insulation layer &gt; 40 mm, anhydrite base in the floor heating system -&gt; 45 mm (external diameter of the heating element + thickness of the layer above heating elements min. 30 mm).</li> <li>Applied as base for ceramic tiles, synthetic lining, panels, parquet, etc.</li> </ul>
Properties:	<ul> <li>Very high durability</li> <li>On the balconies and terraces</li> <li>For floor heating systems</li> <li>Under parquet, panels, carpet flooring, tiles</li> <li>Frost-resistant</li> <li>Waterproof</li> <li>Universal</li> </ul>
Application procedure:	$ \begin{array}{c} \downarrow \downarrow$
Technical data	
Item no.	34710
Packaging type	
Quantity per unit	25 kg
Unit per pallet	48 Pcs/pallet
Consumption	2 kg/m²/mm
Application time	approx. 60 min

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Compressive strength (28 d)	≥ 30 MPa
Layer thickness	25 - 1,000 mm
Soluble chromium VI content	≤ 0.0002 %
Amount of water required	approx. 3.8 l/bag
Reaction to fire	A1 <sub>n</sub>
Possibilities to enter	after 48 hours
Suitable for floor cover	approx. 28 days
Mortar class	R2

The product conforms to: • EN 1504-3:2005

Material base:

- Portland cement
- Quartz aggregate Modifying additives





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Surface:	Repair slits and larger cracks of a bed e.g. using 428 levelling mortar. Concrete beds must be at least 6 months old, and cement screeds - at least 4 weeks old and moisture cannot be higher than 2%. While making bases, it is necessary to comply with the rules on using expansion joints.
	In case of making a base linked with a bed, it is necessary to transfer any possible expansion joints in a bed so that expansion joints in the base made will overlap with them. Before pouring a screed, it is necessary to make expansion joints separating from walls and other elements by using a special joint filler tape or strips of styrofoam preferably 10mm thick. Free edges of the area poured must be protected against flow of screed and it is also necessary to use an expansion joint separating from a limiter.
	In case of making a floor base on a separating layer, preparation of a bed must be started from its cleaning and making an expansion joint separating a screed from walls by means of a joint filler tape. PE film shall then be uniformly spread on the entire surface. The film shall be placed with a min. 0.2 mm turn up on the wall above the expected poured base level. Film shall be joined with min. 10 cm overlaps by gluing, joining with self-adhesive tape or welding to achieve tight insulation.
	In case of "floating" subfloor, styrofoam or mineral wool panels of appropriate hardness shall be staggered (mounted with edge shifting) on a cleaned and even bed. The panels shall be mounted in such a way as to avoid slots between them. When styrofoam panels are applied, sand bed can be a good solution to level any surface irregularities, which could otherwise cause panel cracking or curling. An expansion joint shall be made with a joint filler tape to separate a screed from walls. PE film shall then be uniformly spread on the entire surface. The film shall be placed with a min. 0.2 mm turn up on the wall above the expected poured base level. Film shall be joined with min. 10 cm overlaps by gluing, joining with self-adhesive tape or welding to achieve tight insulation. Note: properly made "floating" subfloor shall not be directly connected with walls, the bed under insulation or with installation elements. Tightness and mounting of the heating installation shall be checked. In case of hot water heating, pipes shall be filled with water to avoid their flowing out in the course of works.
Types of substrate:	<b>Concrete, reinforced concrete:</b> Depending on absorptivity - prime with GRUNTOLIT-W 301 or GRUNTEM KONTAKTOWYM 307. <b>Cement screed:</b> Prime with GRUNTOLIT-W 301 or EXPERT 6
Preparation:	Pour the dry mix gradually to a container with a sufficient amount of clean, cool water, mixing manually or using a low-speed mixer to produce homogenous, lump-free mass. Leave to mature for 5 minutes, and then mix again. If there is a need to use a part of the packaging, the entire dry compound must be carefully stirred because during transport components could be separated. Do not mix the hardened grouting mixture again.
Application procedure:	The mortar prepared must be laid, most often between screeds, layer with thickness dependent on the type of construction of floor and compressibility of layer of thermal or acoustic insulation. Remove the excess of grout with a trowel, moving on the guides. After initial setting, smoothen the surface with a long float. In case of big floor loads, high temperature variations, floors on ceilings of prefabricated elements at premises with increased intensity of use, when subfloors are laid on thermal or acoustic insulation layers, highly susceptible to deformation, as well as to reduce the number of anti- contraction joints, subfloor reinforcement systems shall be applied.
Application conditions:	Apply at temperatures from +5°C to +25°C, these temperatures refer to air, bed and product. All beds should be bearing, compact, stable, clean and, if necessary, primed with GRUNTOLIT-W 301 or EXPERT 6 primer. It is advisable to prime dusty beds with GRUNTOLIT-SG 302 or EXPERT 5 primer.





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Instructions:	The obtained screed shall be protected for the first 7 days from pouring against excessive sunlight, high temperatures, strong wind and water (rainfalls) as well as temperatures below zero (minimum drying temperature is +5 °C). Drying of poured screed with hot-air blowers shall be forbidden. Such conditions must be ensured also during performance of works. Occurrence of cracks and scratches in case of using a screed on cracked or deformable beds is not excluded. While subfloors are made, the principles shall be followed of expansion joints application: structural, insulation and anti-shrinkage. Structural expansion joints shall be used at the areas where structural building expansion joints run and when it is necessary to eliminate the effect of thermal material expansion. Insulation expansion joints shall be used to separate the floor from other building elements (walls, pillars, stairways, etc.) which may constrain floor movements. They shall also be used where subfloor thickness is changed and at the contact point of various floors, as well as to separate rectangular subfloor fields at premises with complex shapes. Anti-shrinkage joints shall separate the entire area into fields, not larger than: 30 m <sup>2</sup> with side length up to 6 m at indoor premises, 20 m <sup>2</sup> with side length not exceeding 5 m- in rooms with floor heating, 40 m <sup>2</sup> with side length up to 8 m- in rooms with floor heating when anti-shrinkage reinforcement is applied (a recommended solution). In corridors, the spacing of anti-shrinkage joints shall not exceed 2–2.5-fold value of corridor width. Expansion joints of screeds on terraces shall be spaced every 2–2.5 m, depending on insolation and outer lining colour. Avoid contact with skin and protect eyes. Detailed guidelines are included in the material safety data sheet.
Storage:	Up to 12 months from the date of manufacture, in dry places and in intact packaging
General information:	This product data sheet replaces all its previous versions. The information, included in this technical card, represents our current knowledge and practical experience. This is general information only which shall not obligate the manufacturer to take any responsibility either for workmanship or for the manner of use. For there may be differences and specific execution conditions. The product shall be applied in accordance with required technical knowledge and OHS rules. Avoid contact with skin and protect eyes. In case of contact with eyes, rinse them up with a large quantity of clean water and consult a doctor. It shall be recommended to use gloves, safety goggles and protective clothing. All technical data is given for the temperature of 20 degrees Celsius. These temperatures apply to air, bed and embedded material.