



## **B30 445 QUICK-SETTING CONCRETE**

Quick-setting cement mortar

Areas of application:	Mortar intended for quick mounting of fence posts and to make different concrete elements, as well as for repairs of concrete substrates of similar strength and other reparation works at home and garden. The surface may be stepped on after already 2 hours. B-30 quick-setting concrete is also intended for screeds and substrate levelling layers. It is especially recommended in areas where the setting rate is of particular importance (corridors, passageways etc.). Minimal layer thickness: base binding with the groundwork > 25 mm, base on separating layer > 35 mm, base "floating" on the thermal and/or acoustic insulation layer > 40 mm, anhydrite base in the floor heating system -> 45 mm (external diameter of the heating element + thickness of the layer above heating elements min. 30 mm).
Properties:	<ul> <li>Quick setting</li> <li>Bonding already after 15 minutes</li> <li>Very high durability</li> <li>For floor heating systems</li> <li>On the balconies and terraces</li> <li>Universal</li> <li>Frost-resistant</li> <li>Non-shrinking</li> </ul>
Application procedure:	



Technical data		
Item no.	34239	
Packaging type		
Quantity per unit	25 kg	
Unit per pallet	48 Pcs/pallet	
Colour	Grey	
Granulation	0 - 4 mm	
Consumption	2 kg/m²/mm	
Application time	approx. 15 min	
Compressive strength	≥ 30 MPa	
Layer thickness	25 - 100 mm	
Soluble chromium VI content	≤ 0.0002 %	
Amount of water required	approx. 3 l/bag	
Possibilities to enter	approx. 2 hours	
Suitable for floor cover	approx. 24 hours	
Stressable	24 hours	
Mortar class	R2	

The product conforms to: • EN 1504-3

Material base:

- \_\_\_\_\_
  - Portland cement
  - Quartz aggregate
  - Calcium aluminate cement
  - Modifying supplements





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Surface:	The groundwork should be prepared according to the application option. In the case of mounting fencing posts by means of the filling and pouring method depending on humidity of soil and weather conditions, it is necessary to use from 6 to 8l of water. At the beginning, dig a hole for anchoring the post from 25 to 35 cm deep. Next, pour 2-3l of water, preferably with a watering can, into the dug hole. Put the post and cover with the mortar. At the end, pour the remaining water (3-5l) and level the post. Absorptive substrates shall be moistened with water or primed Unstable, fragile or incoherent substrates shall be removed. Cement screeds shall be at least 4 weeks old, while concrete substrates need 6 months. 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:	<ul> <li>Concrete, reinforced concrete: moisten with water, if very absorbent, prime with GRUNTOLIT-W 301</li> <li>screed: Prime with GRUNTOLIT-W 301 or EXPERT 6</li> <li>A hole in ground with a stabilised fence post: pour dry mortar into the hole with the stabilised post and add appropriate quantity of water.</li> <li>Making small concrete elements: pour mortar into a formwork, possibly with applied reinforcement</li> </ul>
Preparation:	The dry mixture shall gradually be poured into a container with a proper amount of clean, cold water, while manually or mechanically stirring with a slow-speed mixer until homogenous mass is obtained without any lumps. The mass shall be put aside for 1 minute to mature and then stirred thoroughly again. The obtained mass consistency shall prevent its sliding from a steel, angled float. This is a fast-bonding mortar thus it shall be applied prior to the onset of bonding process - max. after 15 minutes (depending on temperature). 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 temperature refer to air, groundwork and product temperature. All groundwork surfaces must be load-bearing, tight, stable, even and clean and, if required, primed with GRUNTOLIT-W 301 or GRUNTOLIT-SG 302





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Instructions:	The obtained screed shall be protected for 3-5 days from pouring against excessive sunlight, high temperatures, draughts and water. After this period of time, windows may slightly be opened to provide delicate ventilation to the rooms. Drying of poured screed with hot-air blowers shall be forbidden. If a white rust (laitance) occurs on the surface of anhydrite subfloor, it shall be eliminated by grinding and dusted. Removal of anhydrite laitance accelerates the screed drying process. 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 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 reinforcement is applied (a recommended solution). In corridors, the spacing of anti-shrinkage ijoints 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.