



HIGH STRENGTH CONCRETE B-20

Cement mortar

Areas of application:	<p>Intended for the execution of cement floor bases binding with the groundwork, of 25 mm in minimal thickness, or possibly bases on separating layer, of 35 mm in minimal thickness. Suitable for anchoring fence piles. The screed can also be used to execute other, small elements poured directly at the construction site, after applying sufficient reinforcement. Suitable for applying on all groundworks on hydraulic binding agents and vapor barriers or anti-humidity insulation layers.</p>
Product features:	<p>Universal Waterproof Frost-proof High mechanic durability For anchoring piles</p>
Material base:	<ul style="list-style-type: none"> • Portland cement • Mineral fillers • Modifying supplements
Application:	
Conditions for application:	<p>Apply in 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</p>
Surface:	<p>The groundwork should be prepared according to the application option. Repair all gaps and major fissures using e.g. the 428 leveling grout. Concrete groundwork must be at least 6 months old, whereas cement screed - at least 4 weeks. Ambient humidity must be below 2%. When executing flooring bases, observe the principles for the application of expansion joints</p>
:	<p>Concrete, reinforced concrete: Prime with GRUNTOLIT-W 301, pour the grout maintaining the "wet-on-wet" principle Cement screed: Prime with GRUNTOLIT-W 301</p>
Preparation:	<p>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 only a part of the packaging is required, thoroughly mix the entire product to make sure the components do not separate during transport. Do not mix hardened grout with water or fresh material.</p>
Application:	<p>Apply the prepared grout in between screed boards, in a layer depending on the type of floor structure and the compaction of the thermal or acoustic insulation layer. Remove the excess of grout with a trowel, moving on the guides. After initial setting, smoothen the surface with a long float. With high floor loads, considerable temperature fluctuations, floors on ceiling slabs from pre-cast elements in intensively used rooms, when applying the grout on thermal or acoustic insulation layers prone to deformation, as well as in order to reduce the number of expansion joints, always apply base reinforcement.</p>



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Notes:

When executing formworks, remove the formwork at least after 48 hours (if the element has been drying at approximately
 When executing flooring bases, observe the principles for the application of expansion joints: structural, insulation and anti-contraction. Structural expansion joints must be applied according to the routing of the building's expansion joints and whenever it is necessary to eliminate the effect of thermal elongation of materials used. Insulation expansion joints must be executed to separate the floor from other building elements (walls, piles, stairs, etc.), which could restrict floor movements. Expansion joints are also executed wherever the thickness of the base changes, wherever different floors meet, and in order to separate rectangular base fields in complex-shaped rooms. Anti-contraction joints should divide the surface into fields of up to 30m², of 6 m in lateral length in internal rooms, and up to 20m² with lateral length of up to 5m - in rooms with floor heating, and 40m² with lateral length of up to 8 m – in rooms with floor heating, where anti-contraction reinforcement was applied (recommended). In corridors, the span of anti-contraction joints should not exceed 2-2.5 times their width. Expansion joints for screeds executed in terraces should be spanned every 2-2.5m, depending on the exposure to sunrays and the color of outdoor lining.
 Avoid skin contact, protect eyes. Detailed guidelines are included in the material safety data sheet.

Storage:

In dry areas and in non-damaged packaging, up to 12 months from the date of manufacture

Product compliant with:

EN 1504-3

**Amount per unit
 Unit per pallet**

- 25 kg/bag, 48 Stk./Pal.

Technical data

Shelf life after mixing with water	Up to 60 minutes
The possibility of treading on the finished floor	after 48 hours
The possibility of performing further works	After 28 days of hardening
Layer thickness	from 25mm to 80mm
Water mixing proportions	c.a. 3.5 l per 25kg of dry mix
Dry mix consumption	c.a. 2,0 kg/m ² per 1mm of layer thickness
Soluble chromium VI content	≤ 0.0002%

General notes:

This sheet supersedes all previous versions. The information included in this technical sheet represents the current knowledge and practical experience. The information sheet contains general information only and shall not be construed as any basis for manufacturer liability for performance and use. Differences and specific execution conditions may occur. The product is to be used according to the required level of technical knowledge and OHS principles. Avoid skin contact and protect the eyes. In the case of eye contact, wash the eyes abundantly with clean water and seek medical assistance. The use of gloves, goggles and protective clothing is recommended.

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