

TECHNICAL DATA SHEET

EXPRESS 419

Express self-levelling grout



Areas of application

The mortar is intended for making self-levelling floor bases manually inside rooms. It is characterized by quick-setting and a wide scope of use. It is a very universal product because it can be applied in thick layers. It can be used for leveling surfaces of new and modernized floors and other elements (eg stairs of internal stairs) in housing and general, especially in public facilities such as: hospitals, health centers, kindergartens, nurseries, etc. Suitable for laying on rigid and load-bearing anhydrite, cement and concrete foundations, etc. Used as a leveling layer for ceramic tiles, synthetic floor coverings, panels, parquet floors, etc. The product can be used for levelling floor substrates with previously installed underfloor heating.


Properties

- Further works after 24 hrs
- On floors with underfloor heating
- Self-leveling
- Indoor use
- Fast-binding
- Easy to apply
- Very high durability

Application procedure



Technical data

Item number	37838
EAN	5907418023353
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	48 unit/Pal.
Consumption	1,5 kg/m ² /mm
Water requirement	approx. 7 L/unit
Reaction to fire	A1fl
Compressive strength	≥ 20 MPa (28 d)
Pressure resistance	≥ 6 MPa (28 d)
Possibilities to enter	2 h
Suitable for floor cover	24 h

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Chromium content	≤ 0,0002 %
Mortar class	CT-C20-F6
Coating thickness	2-100 mm
Processing time	30 min

Material base

- Mineral fillers
- Portland cement
- Modifying additives

Application conditions

In the case of using the screed on substrates with underfloor heating, they should be subjected to heating in advance in accordance with the construction practice. Apply in temperatures from +5 °C do +25 °C. These temperatures apply to air, groundwork and product temperature. All groundworks should be load-bearing, tight, stable, cleared and, if necessary, primed with EXPERT 6 or GRUNTOLIT-W 301. Prime poor-quality groundworks with EXPERT 5 – deep-penetration primer. Smooth substrates that require increased adhesion are recommended to be primed with GRUNT CONTACT 307. Before pouring out the grout, expansion joints in the groundwork must be properly secured as to ensure they are not filled with grout. Insulation expansion joints must be executed as to separate the grout from the walls and other elements, applying dedicated expansion tape, or Styrofoam panels preferably 10mm thick.

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%.

Concrete, reinforced concrete: Prime with CONTACT GRUNT 307

Cement screed: Prime with GRUNTOLIT-W 301 or EXPERT 6

Terrazzo: Degrease, clean, and execute a contact layer made of elastic tile adhesive or prime CONTACT GRUNT 307.

Anhydrite screed: Grind, clean and prime with

GRUNTOLIT-SG 302 or EXPERT 5

Preparation

Product preparation - manual pouring: Dry the mixture with a sufficient amount of clean water, mixing mechanically using a mortar mixer or a concrete mixer. The mechanical mixing time should be 2-3 minutes. After mixing the first batch of the mortar, check its consistency. If necessary, adjust the amount of water added. The determined mixing ratio with water should be noted so that subsequent batches of mortar are prepared in the same way. 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

Pour out to the desired level, deair with a spiked roller. In the case of layers >2 cm, it is recommended to level the grout with a metal bar, with vibration movements on the poured surface. Before starting work, determine the level to which the screed will be poured. The level of the screed can be determined by using special benchmarks or benchmarks made by themselves from the wire or by using embedded dowels with screws in the ground, the heads of which determine the level of the layer being made. In existing expansion joints, expansion joints should be made in the poured leveling and smoothing layer. It is recommended to start work at the wall furthest from the entrance to the room and lead with 40 cm wide strips. In the case of rooms with a large width, it is recommended to separate smaller working fields (with a width of 3-6 m, depending on the speed of pouring the mass). After pouring, the mass should be spread with a steel trowel and bled with a spiked roller. The work should be carried out without interruption until the entire floor area in the room is covered.

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Instructions

The product is not suitable for use as a floating floor or on a separating layer. Freshly laid mass must be protected against premature drying by reducing heating, protected against direct sunshine, draughts, too low moisture of air etc. Such conditions must be maintained also during performance of the works. (Unstable surface layers must be removed. Repair slits and larger cracks of bed.) Familiarize with the product data sheet before use. Avoid contact with skin and protect eyes. Detailed guidelines are included in the material safety data sheet. Further tile works can be performed after 24 hours of grout drying. This refers to a layer of up to 2 cm thick. In the case of the grout applied in a thicker layer, it is necessary to assume additionally 1 day of drying per each 1 additional centimeter of the product. This data does not refer to laying parquetes, where the drying time is dependent on thickness of the layer, temperature and air humidity and it must be individually checked in each case.

Storage

Up to 6 months from the date of manufacture, in dry areas and in non-damaged factory 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 listed in this product specification has been determined under laboratory conditions.