

TECHNICAL DATA SHEET

EXPRESS 106

Quick-setting, elastic tile adhesive



Areas of application

Quick-setting adhesive intended for applying all types of wall and floor ceramic tiles (ceramics, terracotta, clinker, gres), also the large-format ones, on rigid and deforming indoor and outdoor groundworks. Indoor and outdoor use. Intended for balconies and terraces, for wet rooms (bathrooms, kitchens, laundries), for cement and anhydrite screeds with underfloor heating. This mortar can also be used in swimming pools and saunas. It can be used to fix tiles to the reinforced layer in thermal insulation systems. Also suitable for difficult substrates such as hardboard and particle board.

Properties

- Waterproof
- Frost-resistant
- Fast-binding
- Jointing after 3-4 h following application
- For floor heating systems
- On the balconies and terraces
- For plasterboards
- Class C2FT

Application procedure



Technical data

Item number	31723
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	48 unit/Pal.
Grain size	0-0,5 mm
Colour	Grey
Consumption	1,4 kg/m ² /mm
Water requirement	approx. 7 L/unit
Tensile adhesive strength	≥ 1 N/mm ²

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Item number	31723
Hardening time	approx. 4 h
Possibilities to enter	approx. 4 h
Chromium content	≤ 0,0002 %
Adhesive group	C2 FT EN 12004+A1
Adhesive open time	5 min
Correction possibility	approx. 5 min
Processing time	15 min
Groutable	≥ 4 h

Material base

- Polymers
- Portland cement
- Aluminous cement
- Additives
- Quartz additive

Application conditions

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.

Surface

Remove all unstable grouts and coats. Plasters and cement screeds must be at least 4 weeks old, gypsum plasters and anhydrite screeds must be at least 2 weeks old. Grind and vacuum anhydrite screed. Concrete groundwork must be at least 6 months old. Level out all groundwork irregularities using the 428 leveling grout. Level uneven floor surfaces with the EXTRA FLOOR 418 or EXPRESS 419 self-leveling grout.

Concrete, reinforced concrete: Prime with CONTACT GRUNT 307

Gypsum, gypsum-lime, cement, cement-lime and lime cement: Prime with GRUNTOLIT-W 301

Cement screed: Prime with GRUNTOLIT-W 301

Anhydrite screed: Grind, vacuum and prime with GRUNTOLIT-W 301

Gypsum plasterboards: Prime with GRUNTOLIT-W 301

Autoclaved aerated concrete elements: Prime with GRUNTOLIT-W 301

Silicate blocks: Prime with GRUNTOLIT-W 301

Old ceramic tiles and oil wainscot: Execute a contact layer using a class C2 S1 or S2 adhesive or the GRUNTOBET 310 primer or EXPERT 314.

Liquid foil, polymer-cement sealants: Do not prime

Surface pre-treatment

Clean all old, well-gripping ceramic tiles and oil wainscot and execute a contact layer using a class C2, S1 or S2 adhesive or the GRUNTOBET 310 primer. Remove all bituminous mass residues (left after removed parquets) from the groundwork.

Preparation

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

Apply the grout on the groundwork using a toothed trowel. Apply the prepared grout onto the steel trowel and firmly spread a thin layer across the bed using the straight edge.

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The next steps is to apply a thicker grout layer and spread it using the notched edge of the trowel at an angle of 45-60 degrees to the bed. The area covered with the grout should be adjusted to the block laying abilities, not exceed the open drying time of the grout. It can be verified by touching the grout, if no adhesion occurs, the open drying time was exceeded and the grout should be removed from the surface and replaced with a fresh layer. The tiles should be laid by placing the second one as close to the first one and moving it to receive a joint of proper width. The tiles should not be wet before laying! Press tiles and if need be strike with a rubber hammer against the bed so that the adhesive will adhere to at least 70% of surface of a tile. Tiles bigger than 30x30 cm, all tiles laid outside and in permanently wet and intensively used places should be laid so that the adhesive will adhere to the entire tile surface. In order to meet these requirements the adhesive should be also applied to the entire back of the tile with a thin layer of equal thickness, covering the concavities and convexities. The joint width should be chosen based on the tile size. Internal floors adopt the following: minimum 2mm - at the tile side length up to 10 cm, 2-6mm - using tiles of 10-25cm, 4-8 mm - using tiles of 25-30 cm. Before the adhesive dries, the possible grout residue should be removed from the joints, and the tiles should be washed with water.

Instructions

Avoid contact with skin and protect eyes. Detailed guidelines are included in the material safety data sheet. The glue bonding time depends on the air temperature, substrate and embedded material. At low temperatures, the bonding may be twice as long. All technical data is given for the temperature of 20 degrees Celsius. These temperatures apply to air, bed and embedded material.

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 is given for a temperature of +20 °C and a humidity of 60 %. In the case of drying times, binding, pointing, open, correction, water resistance, etc., these values are given for a typical layer thickness of the product, which for the tile adhesive is about 5mm, primer and self-leveling screed of about 10mm, screeds about 25mm. In special cases, they may deviate from this accepted average and should be determined experimentally. In case of doubts and not included in this record, it is recommended to contact the technical department of KREISEL.

All technical data listed in this product specification has been determined under laboratory conditions.