

TECHNICAL DATA SHEET

EXPERT 1

Frost-resistant adhesive for ceramic and terracotta tiles



Areas of application

Professional adhesive mortar designed for gluing ceramic and terracotta tiles, wall and floor tiles with absorbability > 3% to rigid, non-deformable substrates inside and - in the case of using frost-resistant tiles - outdoors. For use in places not exposed to significant deformations due to temperature changes (occurrence of thermal stress). Waterproof and frost-proof Ideal for rigid, non-deforming and well-gripping groundworks, both indoor and outdoor.


Properties

- Waterproof
- Frost-resistant
- Economical
- For wall and floor tiles
- For plasterboards
- For wet rooms
- Class C1T

Application procedure



Technical data

Item number	29336
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	48 unit/Pal.
Grain size	0-0,5 mm
Colour	Grey
Consumption	1,3 kg/m ² /mm
Water requirement	approx. 6 L/unit
Reaction to fire	A1/A1fl
Tensile adhesive strength	≥ 0,5 N/mm ²

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Item number	29336
Possibilities to enter	24 h
Chromium content	≤ 0,0002 %
Density	approx. 1,45 g/cm ³
Adhesive group	C1 T EN 12004+A1
Adhesive open time	10 min
Correction possibility	approx. 10 min
Drying time	24 h 48 h
Substrate temperature	5-25 °C
Processing time	2 h
Groutable	≥ 48 h

Material base

- Mineral fillers
- Portland cement

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 mortars and unstable layers. Plasters and cement screeds must be at least 4 weeks old. Concrete surfaces must be at least 6 months old. Level all groundwork irregularities with the 428 leveling grout. Irregular cement and concrete floor surfaces should be leveled with the EXTRA FLOOR 418, QUICK-SETTING SELF LEVELING GROUT 417 or EXPERS 419 self-leveling grout. Concrete, reinforced concrete: Prime with GRUNTOLIT-W 301 or EXPERT 6. In the case of smooth surfaces, use the GRUNTOBET 310 or EXPERT 314 primer. Cement-lime plaster: Prime with GRUNTOLIT-W 301 or

EXPERT 6

Gypsum plaster: Prime with GRUNTOLIT-W 301 or EXPERT 6

Gypsum plasterboards: Prime with GRUNTOLIT-SG 302 or EXPERT 5

Autoclaved aerated concrete elements: double prime with GRUNTOLIT -W 301

Bricks and ceramic CMUs, silicate: Prime with GRUNTOLIT-W 301 or EXPERT 6

Cement screed: 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. Mix manually or using a low-speed mixer to produce a homogeneous mass without lumps. Leave to mature for 5 minutes and mix again. The mass should be thick enough not to slide from a trowel when set at an angle. 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 prepared mortar onto the steel trowel and firmly spread a thin layer across the bed using the straight edge. The next step is to apply a thicker mortar layer and spread it using the notched edge of the trowel at an angle of 45-60

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degrees to the bed. The area covered with the mortar should be adjusted to the tiles laying abilities not to exceed the open drying time of the adhesive. It can be verified by touching the grout with a finger, 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.

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.

Instructions

Do not apply on screeds with floor heating and anhydrite screed, as well as for gres tiles. For tiles with 30cm in side length, apply an adhesive offering increased elasticity. 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

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Approximate consumption of cement tile adhesives		
Tile length	Size of the trowel teeth	Consumption
≤ 5 cm	3 mm	1,4 kg/m ²
5-10 cm	4 mm	1,9 kg/m ²
10-20 cm	6 mm	2,9 kg/m ²
> 20 cm	8 mm	3,9 kg/m ²
> 20 cm	10 mm	4,9 kg/m ²