

TECHNICAL DATA SHEET

EXPERT 4

White, highly deformable tile adhesive



Areas of application

Professional adhesive intended for applying all types of tiles and stone panels made of marble, granite, travertine, sandstone, basalt, slate, andesite, and other, and for applying tiles: ceramic, terracotta, clinker, gres, including the large-format ones. 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 for tiles in swimming pools and saunas. It can be used to fix tiles to the reinforced layer in thermal insulation systems. It is also suitable for such difficult substrates as fiberboard, chipboard and OSB. Ideal for applying mosaic tiles Also suitable for large format tiles, quartz sinter with an edge of more than 120 cm.

Properties

- Highly plastic
- thixotropic
- Frost-resistant
- Waterproof
- On the balconies and terraces
- For floor heating systems
- For terrazzo and oil paint
- Suitable for OSB and chipboard panels
- White
- Contains trass

Application procedure



Technical data

Item number	29465
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	48 unit/Pal.
Grain size	0-0,5 mm
Colour	White
Consumption	1,3 kg/m ² /mm
Water requirement	approx. 6,5 L/unit

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Tensile adhesive strength	$\geq 1 \text{ N/mm}^2$
Possibilities to enter	24 h
Density	approx. $1,3 \text{ g/cm}^3$
Adhesive group	C2 TE S2 EN 12004+A1
Adhesive open time	30 min
Correction possibility	approx. 30 min
Substrate temperature	5-25 °C
Processing time	3 h
Groutable	$\geq 48 \text{ h}$

Material base

- Rubber powder
- Microfibers
- Mineral fillers
- Polymers
- 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 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 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. Chipboards and OSB must be

sanded and thoroughly vacuumed. Old ceramic tile cladding and paneling from oil paints are recommended to be thoroughly cleaned and degreased, then covered with a thin layer of adhesive (adhesive layer) or CONTACT GROUND 307 and wait for drying. All bituminous masses (after removed parquets) remaining on the base should be removed. 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 GRUNTOLIT 310 primer. Remove all bituminous mass residues (left after removed parquets) from the groundwork.

Concrete, reinforced concrete: Prime with CONTACT GRUNT 307

Gypsum, gypsum-lime, cement, cement-lime and lime cement: Prime with GRUNTOLIT-W 301 or EXPERT 6

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

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

Anhydrite screed: Grind, clean and 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

Liquid foil, polymer-cement sealants: Do not prime

Reinforcing layer in the thermal insulation system: Do not prime

OSBs, chipboards, fiberboards: grind, clean, do not prime
Terrazzo: Degrease, clean, and execute a contact layer made of elastic tile adhesive or prime CONTACT GRUNT 307.

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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. If needed, correct the amount of added water based on the application location (wall, floor).

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 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. Tiles with a side bigger than 60 cm, quartz sinters, etc. are advisable to be fixed in such a way so that the mortar will adhere to the whole surface of tiles. For this purpose, the adhesive must be applied with a toothed trowel on the bed and on the tile. 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. For the external floors, depending on the tile colour and sunlight, the provided values should be increased by 50-80%. In case of clinker tiles, the floor

should be coated with HYDROMUR-W 1010, but not sooner than 4 days after pointing. Facades exposed to precipitation should be protected from rainfall until the moment of impregnation. Apply as for an insulation and decorative panel adhesive: Depending on the size and weight of the panels, apply the adhesive on the surface in spots or strips. When applying the panel in its intended site, press it firmly against the groundwork.

Instructions

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 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

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been determined under laboratory conditions.

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