



EXPERT 1

Frost-proof 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
 - Economic
 - For tiles and terracotta
 - For plasterboards
 - For wet rooms
 - C1T class

Application procedure:



Technical data	
Item no.	29336
Packaging type	
Quantity per unit	25 kg
Unit per pallet	48 Pcs/pallet
Colour	Grey
Density	approx. 1.45 g/cm ³
Granulation	0 - 0.5 mm
Consumption	1.3 kg/m ² /mm
Drying time	from 24 to 48 hours
Application time	approx. 2 h
Layer thickness	1 - 10 mm
Soluble chromium VI content	≤ 0.0002 %
Amount of water required	approx. 6 l/bag
Reaction to fire	A1/A1fl
Possibilities to enter	after 24 h
Groutable	after 48 hours
Adhesive group (EN 12004+A1)	C1 T
Adhesion to (Concrete)	≥ 0.5 N/mm ²
Max. application density	≤ 10 mm
Correction possibility	approx. 10 min
Adhesive open time	10 min

The product conforms to: • EN 12004+A1

- Material base:**
- Mineral fillers
 - Modifying supplements
 - Portland cement



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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 RENOGRUNT 410, RENOGRUNT 411, RENOGRUNT 412, RENOGRUNT 414 or EXPERT 419 self-leveling grout. Anhydrite screed should be leveled with SAMOPOZIOMUJĄCY PODKŁAD PODŁOGOWY 202.

Types of substrate: **Concrete, reinforced concrete:** Prime with GRUNTOLIT-W 301 or EXPERT 6. In the case of smooth surfaces, use the GRUNTOBET 310 primer.
Cement-lime plaster: Prime with GRUNTOLIT-W 301 or EXPERT 6
Gipsputz: 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

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
	10 mm	4,9 kg/m ²

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 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.

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.



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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:	<p>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.</p> <p>All technical data is given for the temperature of 20 degrees Celsius. These temperatures apply to air, bed and embedded material.</p>