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Technical Data Sheet 01/2022



Knauf K5

Increased-flexibility adhesive for larger tiles C2TE S1

Description of product

Factory-prepared cement-based tile adhesive with increased flexibility. Intended for installing wall and floor, granite, gres and ceramic tiles of larger format, up to 0.8 m². For outdoor and indoor applications.

Product composition

Cement, sieved limestone, re-dispersible polymer, special fibres, additives for workability, adhesiveness.

Shipment method

Bag 25 kg No. of the product 596687

Storage

Bags should be stored on wooden pallets in a dry place.

Quality

The product is subject to permanent quality control and bears the CE marking. Use the material within 12 months from the date of manufacture.

Scope of application

- Installation of wall and floor low-absorbing granite or gres tiles of larger format, with surface area up to 0.8 m² according to SRPS EN 14411
- For outdoor and indoor applications
- Installation of tiles on cement screeds and/or leveling compounds
- Installation of tiles on plastered/rendered walls, gypsum and cement plasterboards

- For more demanding applications
- For "tile-over-tile" installation
- For systems with underfloor heating
- For use in swimming pools
- Installation of tiles over Knauf polymer-cement waterproofing

Characteristics

- Flexible cement-based adhesive for C2TE S1 tiles according to SRPS EN 12004
- Increased flexibility
- Exceptional adhesion
- No tile movement
- Extended open time
- Frost-resistant
- Flexible
- Thin-layer adhesive
- Grey color

Application

Surface to which the adhesive is applied	Surface preparation
Non-bearing surfaces	Remove all nonsupporting layers of material
Uneven surface with cavities	Even and fill holes with suitable reparation plaster
Cement-based screed, cement-based self-leveling compounds	Apply Knauf Finish Grund / Tiefengrund and allow to dry
Rendered wall surfaces, plasterboards or cement boards	Apply Knauf Finish Grund / Tiefengrund and allow to dry
Concrete surfaces	Apply primer Knauf Spezialhaftgrund
Ceramic tiles	Apply primer Knauf Spezialhaftgrund

Preparation works

The substrate on which the tiles are installed must be dry, dedusted, degreased, supporting, flat and free of residues that reduce the adhesion of the adhesive. Before applying the adhesive, prepare the substrate in accordance with the above table "substrate preparation".

Preparation of the material

Add the contents of the bag (25 kg) to 7.3 l of clean water and mix until the material is completely homogenized. After that, leave the prepared material to rest for 5 minutes and stir again. Thus prepared material is ready for use. If necessary, adjust the consistency by adding water or powder. The open time of the applied adhesive (for work and correction) is 40 minutes. Compound prepared in the bucket should be used within 5 hours. Clean the tool immediately after use with water.

Application

On already prepared surface apply adhesive in thin layer on whole area and overspread it with suitable notched trowel. Position tile on freshly applied adhesive and press with enough force, to achieve adequate bond between adhesive and tile. If necessary „floating and buttering“ process can be used, i.e. apply adhesive both on tile surface and on substrate surface in thin layers. Overall thickness of the adhesive after tile installation must not be greater than 5mm.

In case of skin formation (test with finger) remove adhesive and apply new fresh layer.

Operating temperature

Compound should not be applied at temperatures of surrounding air and substrate lower than +5°C and higher than 25°C. Protect freshly applied adhesive from draft, fast drying and freezing.

Special remarks

- Minimal class of compressive strength of plaster/mortar over which tiles are installed must be CSII
- The longest edge of the tile must not exceed 120 cm and the total area of the tile must not exceed 0.8 m²
- Adhesive is to be applied in thin layer. Total thickness after tile installation: up to 5 mm
- Walkability: after approx. 24 hours.
- Ready for exploitation: after approx. 14 days
- If adhesive is applied on flooring systems with heating, heating must be switched off (minimum 24 h before beginning of application)
- Application in swimming pools only if grouted with epoxy waterproof grouting compound after complete drying of the adhesive
- The adhesive should only be mixed with clean water and without any additives
- Clean the equipment and tools with water immediately after use

Safety remarks

For safety remarks, see the safety data sheet

Technical data SRPS EN 12004

	Value	Test standard
Initial adhesive strength	≥ 1.0 N/mm ²	SRPS EN 1348
Adhesive strength after water immersion	≥ 1.0 N/mm ²	SRPS EN 1348
Adhesive strength after heat ageing	≥ 1.0 N/mm ²	SRPS EN 1348
Adhesive strength after freeze-thaw cycles	≥ 1.0 N/mm ²	SRPS EN 1348
Flexibility class	S1	SRPS EN 12004

The technical data given in this table are determined according to the applicable standards. Depending on the construction site conditions, minor deviations are possible.

Consumption of materials

	Tooth size on trowel mm	Consumption kg/m ²
Bonding	4	2.0
	6	3.0
	8	3.5
	10	5.0

All consumption data are indicative and may deviate due to substrate quality and method of application. The exact consumption should be determined at the construction site.

Production range

K5	Packaging	pcs/pallet	Product number	EAN code
Bag	25 kg	54 bags/pallet	596687	8606105251136



Pay attention to the safety data sheet!
 Safety Data Sheet and CE mark are available at
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