

Maleki-FK 601

Universal tile adhesive

Item-No.: 1615

Universal applicable thin-bed mortar. Fulfills the requirement C2 TE according to DIN EN 12004.

Technical data

Mixing ratio	max. 5.8 l water per 25 kg powder	Color	Grey
Adhesive strength 1 day 7 days 28 days	dry storage approx. 0.6 N/mm ² approx. 1.5 N/mm ² approx. 2.0 N/mm ²	Deformation behavior	approx. 2 mm
Processing temperature	Min. +5 °C, max. +35 °C	Processing time Open time at 20°C	approx. 3 hours approx. 30 min (depends on temperature)
Application thickness	up to 5 mm adhesive bed thickness	Consumption Consumption for different toothed combs	approx. 1.3 kg / m ² per mm application thickness 4 mm: approx. 1.6 kg/m ² 6 mm: approx. 2.4 kg/m ² 8 mm: approx. 3.2 kg/m ²
Loadability Walkable Light load Fully loadable	Curing at 20°C 1 day 2 days 5 days	Density Bulk density Fresh mortar density	approx. 1.1 kg/dm ³ approx. 2.0 kg/dm ³

Properties

- Eco-Binder technology
- environmentally friendly
- 100% mineral
- VOC – and APEO-free
- low in chromate according to TRGS 613
- salt water resistant
- high protection against slipping and high adhesive strength according to DIN EN 1308 and DIN EN 1348
- long open time according to DIN EN 1346
- waterproof, frost-proof and temperature-resistant

Range of usage

- dry and wet areas
- for floor coverings with high adhesion in wet rooms, commercial kitchens and in housing construction
- Suitable types of coverings:
- Stoneware, earthenware, in accordance with DIN EN 176, EN 159 or corresponding properties
- Gap plates, hand-shaped stones
- Large-sized tiles and plates
- Insulation boards, light building boards

Preparation of substrate

Maleki-FK 601 is applicable on the following surfaces:

- concrete, lightweight concrete, aerated concrete
- screed, floating screed
- masonry, plaster

All substrates must be solid, load-bearable, free from grease, oil, loose or soft materials and must be aligned and perpendicular according to DIN 18202.

Remove loose tiles and plaster as well as old paint coatings. Close existing inequalities with Maleki-FK 601. On the floor uneven large surfaces on cementitious substrates can be quickly and economical leveled with Maleki-BV 310.

Highly absorbent substrates such as gypsum, lime-cement and cement renders, dry and roughened anhydrite screed must be primed with Maleki-TG 110.

For waterproofings in wet rooms in combination with ceramic coverings (i.e. showers) use Maleki-DS 250 Flex as flexible waterproofing. After curing use Maleki-FK 601 as described.

Mixing and application

Pour 5.8 liters of water into a clean container; add 25 kg Maleki-FK 601. The material has to be mixed intensely for 3 minutes, left to set for 2 minutes, and then mixed again briefly. A whole bundle should be mixed with mixing paddle attached to an electric drill. Mix only as much material as can be applied

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within 3 hours. Do not mix Maleki-FK 601 with any other liquid component except water.

Use smooth side of a steel trowel to scrape the mixed mortar onto the entire substrate. Maleki-FK 601 is then applied to this contact layer with a toothed adhesive spreader suitable for the cover used (in one direction if possible). Apply only as much mortar as can be covered within the open time (finger tip test). Slide the tiles onto the fresh mortar bed and press in place before a skin is formed on the cement mortar. Do adjustments if needed. Use a wet sponge to remove fresh mortar remains from the surface of the cover when necessary. Keep the space in between tiles free of mortar during application to ease subsequent grouting. Please observe VOB DIN 18352 and 18332 during work. See notes on DIN 18157, Part I and Codes of Practice issued by the Central Association of the German Construction Trade for laying techniques.

Do not refresh the stiffened mortar with water or fresh mortar. On heated floors choose a technique that assures a mortar thickness of 2 mm under the covering.

Tools and cleaning

Mixing equipment, mixing paddle attachment, mortar tub, trowel, toothed adhesive spreader and trowel. All equipment should be washed clean and dried before and after application.

Packaging and shelf-life

25 kg paper bag
Original packing is storable for 12 months in dry and controlled temperate areas (not below 0 °C, recommended 10 – 25 °C). Reseal opened containers immediately and use within a very short time.

Safety notes

Maleki-FK 601 contains cement and reacts alkaline with moisture/water. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process. Please refer to the Material Safety Data Sheet which can be requested on www.malekigmbh.com for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.


Notes

Do not use Maleki-FK 601 on heated substrates or in areas with extreme cold, warm or wind exposure (processing temperature +5 °C - 35 °C). Temperature of the substrate must be at least 3 °C above the prevailing dew point

With an existing normal room temperature (approx. 20 °C) an inspection and grouting of the material can be made after about 12 hours. We recommend Maleki-FF 20 Ultra. Connection and expansion joints are then closed with durable joint material.

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. In particular, we assume no liability based on this information or any verbal statements. The only exception is when we can be blamed for the case of intent or gross negligence. In that case the customer has to prove that he has transmitted all required information completely and in a timely manner for a proper and promising evaluation by Maleki GmbH. Any further

details regarding the application of our products have to be confirmed in writing by Maleki GmbH. The customer must test the product's suitability for the intended application and purpose. We reserve the right to change the product specifications due to the ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product. The technical data sheet can be requested on www.malekigmbh.com.

	
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15 No. 1615 EN	
EN 12004 C2 TE Universal applicable thin-bed mortar.	
Fire behavior	A1
Adhesive strength after dry storage	≥ 1.0 N/mm ²
Adhesive strength after water storage	≥ 1.0 N/mm ²
Adhesive strength after warm storage	≥ 1.0 N/mm ²
Adhesive strength after freeze-thaw storage	≥ 1.0 N/mm ²