

**Description**

Cementitious ceramic tile adhesive with extended open time and reduced slip.

Fields of Application

- Floor and wall bonding of all types of ceramic tiles, mosaic and decorative bricks on cementitious renders, cementitious screeds and concrete.
- Bonding of tiles on existing ceramic.

Properties

- Perfect adherence.
- Allows installation of tiles from top towards the bottom.
- Extended open time.
- Easily trowelable.

Preparation of Substrates

- Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
- Cracked plasters mortar and cement residues must be scraped off the surface.
- The porous surfaces should be wetted and must be left to dry before application.
- Use Tamirart or Mastar 10 in case of uneven substrates to get a sound and flat surface.
- The surface should be primed with Kalekim Astar (Primer) depending on the absorbency of the substrate before application.
- Exposed concrete surfaces should be primed with Kalekim B-tone in order to increase the adhesion strength of tile adhesive.
- In case of application on existing tile, first prime the surface with Kalekim Dolgulu Astar (Smooth Surface Primer).
- Wipe the back sides of tiles with water if dusty.

Application

- Pour Kalekim 1051 on the amount of clean water specified in the technical table slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application.
- Allow to stand for 5 - 10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.
- Consumption is 3-5 kg/m².
- Consume the prepared mortar within 6 hours.
- Spread the mortar onto the substrate with a notched trowel of which notch size is appropriate to the tile dimension. To obtain a good adhesion first apply a thin coat of Kalekim 1051 with the flat side of the trowel, then notch with the toothed side of the trowel.
- Open time is 30 minutes. Install the tiles within this period with a firm pressure. Unfavourable climatic conditions (high temperature, low humidity, wind, etc.) can reduce this time to just a few minutes, If this period is exceeded, scratch and discard the mortar.



Post-Application Protection & Suggestions

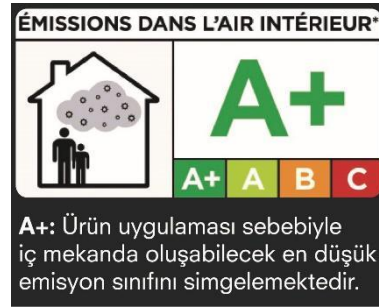
- Clean tools and hands with water, and surfaces with a damp cloth.
- Dispose mortars of which the pot life is expired.
- Tiles installed with Kalekim must not be subject to water for at least 24 hours and must be protected from frost and strong sunlight for at least 5-7 days after installation.
- Time required for grouting on walls is 8 hours and on floors is 24 hours.
- Floors can be opened to light foot traffic after 24 hours.
- The surface should be protected from air stream during and after the application.
- It should not be applied in rainy weather and the applied surface should be protected from rain in 24 hours.
- The mortar should not be exposed to direct sunlight and the mixture should be made with warm water.
- Application temperature should be between +5°C and +35°C.
- Since it contains cement, it irritates the eyes, respiratory system and skin. For further information refer to the safety data sheet.
- The consumption values in the table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Do not stack more than 10 bags on top of each other.
- Shelf life is maximum 12 months conditional to complying with the above mentioned conditions.

Packaging

- 5 kg Polyethylene bag.
- 20 kg multi-ply paper bags.
- 25 kg multi-ply paper bags.



Certificates of Quality

EN 12004-1, Class C1TE.
C: Cementitious
1: Standard
T: Reduced slip
E: Extended open time



Technical Properties

(at 23°C and 50% RH)

General Data

| | |
|------------|--|
| Appearance | Grey powder |
| Shelf Life | 12 months when stored in the original sealed packing in a dry place. |

Application Data

| | |
|-------------------------------|---|
| Application Temperature Range | (+5°C) - (+35°C) |
| Mixing Ratio | 7 - 7.5 lt water / 25 kg powder 1.4 - 1.5 lt water / 5 kg powder |
| Pot Life | 6 hours |
| Grouting | 8 hours on wall; 24 hours after on floor |
| Consumption | 3-5 kg/m ² |

Performance Data

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|--|--|
| Slip (EN 12004-2) | ≤ 0.5 mm |
| Open Time (EN 12004-2) | After 30 minutes ≥ 0.5 N/mm ² |
| Tensile Adhesion Strength (EN 12004-2) | |
| - Initial | ≥ 0.5 N/mm ² |
| - After heat exposure | ≥ 0.5 N/mm ² |
| - After immersion in water | ≥ 0.5 N/mm ² |
| - After freeze/thaw cycles | ≥ 0.5 N/mm ² |
| Service Temperature Range (after final cure) | (-40°C) - (+80°C) |
| Release Dangerous Substances (EN 12004-1) | See SDS. |
| Reaction to Fire (EN 13501-1) | A1 |