



Description

High performance cementitious adhesive with extended open time and reduced slip.

Fields of Application

- Interior and exterior floor and wall bonding of all types and sizes of ceramic tiles, granite, porcelain ceramic, cotto, clinker on cementitious renders, cementitious screeds and concrete.
- Bonding of tiles on existing ceramic tiles or marble.
- Bonding of tiles on places subject to heavy traffic like shopping malls, hospitals, schools.

Properties

- Perfect adherence.
- Can be applied on vertical surfaces even for bonding of heavy tiles without sagging.
- 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. Use Gypsastar on anhydrite screeds.
- 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.
- Wipe the back sides of tiles with water if dusty.

Application

- Pour Granitech 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 4 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 Granitech with the flat side of the trowel, then notch with the toothed side of the trowel.
- Application of large tiles (greater than 40x40), on existing tiles or which are subject to frost or heavy traffic, Granitech should be applied also on the back of tiles.(combined method)
- 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.



1055 Granitech

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 Granitech 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

- 25 kg multi-ply paper bags.



Certificates of Quality

EN 12004-1, Class C2TE

C: Cementitious

2: Improved

T: Reduced slip

E: Extended open time



1055 Granitech

Technical Properties

(at 23°C and 50% RH)

General Data

Appearance	Grey or white 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	6.5-7 liters water / 25 kg for grey powder 7-7.5 liters water / 25 kg for white powder
Pot Life	4 hours
Grouting	8 hours on wall; 24 hours after on floor
Consumption	3 - 5 kg/m ²

Performance Data

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 (after 28 days)	≥ 1 N/mm ²
- After heat exposure	≥ 1 N/mm ²
- After immersion in water	≥ 1 N/mm ²
- After freeze/thaw cycles	≥ 1 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