

YAPIFINE® GRANITE FLEX

Flexible Granite Ceramic Adhesive Mortar - C2TES1



Product Definition

Cement based, advanced adhesive mortar with polymer additive for porcelain, ceramic, granite, briquette etc.; offers increased shear strength and longer open exposure period.

Areas of Use

- Interior and exterior walls and floors,
- Terraces and balconies,
- Areas with continuous exposure to water, such as swimming pool,
- Adhesion of large size ceramics (with water absorption ratio of below 3%),
- Areas with temperature difference,
- Areas with intense pedestrian traffic such as shopping mall, school, hospital,
- On surfaces such as concrete, plaster, screed.

Advantages


- Ensures smoothing of adhered coating material for a long period.
- High adhesive strength.
- No sliding on vertical applications.
- Watertight.
- Perfect result in exterior ceramic and granite adhesion processes.

Technical Specifications

Appearance	Grey / White powder	Tensile Adhesion Strength After Heat Aging	≥ 1 N/mm ²
Pot Life	3 hours	Tensile Adhesion Strength After Freeze-Thaw Cycles	≥ 1 N/mm ²
Application Temperature	Between +5°C and +30°C	Open Time Tensile Adhesive Strength (30 minutes)	≥ 0.5 N/mm ²
Service Temperature	-40°C / +80°C	Sliding	≤ 0.5 mm
Required Waiting Time for Foot Traffic	8 hours on wall 1 day on floor	Transverse Deformation	≥ 2.5 mm
Initial Tensile Adhesion Strength	≥ 1 N/mm ²	Reaction to Fire	A1
Tensile Adhesion Strength After Water Immersion	≥ 1 N/mm ²		

* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

 Packaging	25 kg kraft bag
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 Consumption	3 – 5 kg/m ²
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Surface Preparation

The surface should be cleaned of all residual materials such as dust, oil, dirt, paint, curing materials, bitumen and other foreign substances that would prevent adhesion.

The plaster and weak particles that do not adhere to the surface well enough should be removed from the surface prior to the application.

The damaged sections of the concrete, the fractures and static cracks on the concrete surface should be repaired with the appropriate YAPIFINE MEND repair mortar.

The application surface should be wetted and it should be kept damp during the application. It is recommended to prime highly absorbent surfaces with YAPIFINE UNI PRIME. If they are dusty the back sides of the ceramic tiles should be washed with water.

Mixture Preparation

Slowly pour YAPIFINE GRANITE FLEX into 6-6.5 L of clean water and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix.

Do not add any substance which is not mentioned in the instructions for the application.

The prepared mortar is left to rest for 5 minutes. Afterwards it is mixed for 1-2 more minutes after which application can take place.

Application Information



The mortar is applied to the surface and its thickness is adjusted with the notched trowel according to the size of the ceramic and the smoothness and evenness of the application surface. As the size of the ceramic increases it is recommended to do a double-sided application.

The tiles should then be placed onto the combed mortar surface with the help of a rubber hammer in 30 minutes. Under undesirable weather conditions such as high temperature, low humidity, wind, etc. this time period may decrease.

The fresh mortar should be used up within 3 hours. Under no circumstances should the expired mortar be used.

The dredge size of the notched trowels according to the ceramic tile sizes:

Tile Size	Recommended Dredge Size
< 25 cm ²	3 mm
25 -100 cm ²	4 mm
100 - 400 cm ²	6 mm
400 - 1600 cm ²	8 mm
> 1600 cm ²	10 mm

Application Conditions

For a minimum of 24 hours after application, avoid getting the application surface in contact with water.

Should not be applied to surfaces that were exposed to sunlight for too long or to surfaces that are too hot or frozen.

Should not be applied when the ambient temperature is not within the values of +5°C and +30°C.

The application area should be protected from the effects of wind and direct sunlight during the application process.

The final consumption amount might vary depending on application conditions and surface characteristics.

Shelf Life

The shelf life of the product is 12 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°C and +25°C.

Safety Precautions

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations.

In case of contact with the eyes, rinse with plenty of water before seeking immediate medical attention.

Rinse with plenty of water in case of contact with the skin.

Since it is cement based, do not breathe its powder.

For further information on the safe handling of this product please read the Safety Data Sheet (SDS).