Tile and Ceramic Adhesives / Cement Based Adhesives

HIGHFLEX®

Granite Ceramic Adhesive Mortar C2TES1 (White)

DESCRIPTION

White cement based, single component, polymer added, **S1 class very flexible,** high performance and stability powder adhesive mortar with **reduced slip** and **long working time**.

APPLICATION AREAS

- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Bonding of large-sized floor and wall ceramics, granite, granite ceramic, marble, clinker and all kinds of natural stone coverings,
- Places exposed to heavy pedestrian traffic, such as work places, shopping malls, schools and hospitals,
- Places exposed to temperature changes, such as cold storage depots, flash freezing facilities and floor heating systems,
- Places exposed to water and outdoor weather conditions, such as pools, water tanks, terraces and balconies,
- Bonding of ceramics on old granite and marble surfaces.

TECHNICAL PROPERTIES

Appearance	White colored fine powder
Powder Density	~ 1.35 kg/L
Water Mixing Ratio	5.5 – 6.5 L water / 25 kg powder
Resting Period	5 – 10 minutes
Pot Life	2 – 2.5 hours
Extended Open Time Tensile Adhesion Strength	After min. 30 minutes ≥ 0.5 N/mm^2 (EN 1346)
Application Temperature	Between +5°C and +35°C
Tensile Adhesion Strength	≥ 1 N/mm^2 28 days (EN 1348)
Slip	≤ 0.5 mm (EN 1308)
Transverse Deformation	≥ 2.5 mm and < 5 mm (EN 12002)
Walk-on Time	24 hours
Service Temperature	Between -30°C and +80°C

ADVANTAGES

- Decorative due to its white color.
- Since it is the same color as the white joint, the joint application can be started in shoter time.
- Very flexible and provides strong bonding.
- Has transverse deformation property.
- Resistant to water and frost, and to the tensions on the surface that are caused by sudden temperature changes.
- Provides long workability, saves time and labour.
- Allows sufficient time to adjust applied granite ceramics.
- Provides high stability and does not sag in vertical applications.

CONSUMPTION

4 – 6 kg/m^2

PACKAGING

25 kg kraft bags

APPLICATION

PREPARATION OF THE SURFACE

- The surface must be cured.
- The surface must be clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils.
- Repair the surface 24 hours before the application with **FIXA's** appropriate repair mortars depending on the depth and structure of the surface.
- Wet the surface and keep it moist. If the surface is very absorbent, prime it before the application.
- In wet areas, isolate the surface with **FİXA's** appropriate waterproofing materials before the use of the ceramic adhesive.

PREPARATION OF THE MORTAR

- Add 25 kg of FİXA HIGHFLEX Ceramic Adhesive Mortar (White) in approximately 5.5 – 6.5 L of clean water and mix with a low speed mixer until there are no lumps.
- Let the mortar rest to mature for 5 – 10 minutes and mix again 1 – 2 minutes before use.
- Use the material within 2 – 2.5 hours.

APPLICATION

- Press the adhesive mortar strongly on the surface to form a contact layer and notch the product with a toothed trowel appropriate to the tile size.
- The adhesive mortar should touch at least 80% of the back side of the ceramic.
- Use the double sided adhesion method depending on the size of the floor slabs on uneven surfaces, areas exposed to heavy pedestrian traffic or load, cold storages and floor heating systems where temperature changes are high and apply the adhesive mortar both on the back of the ceramic and on the surface, and fix the plates in such a way that the carding direction is perpendicular to each other.
- To ensure a good adhesion, apply force with a rubber hammer.
- Complete the application by using the appropriate **FIXA** joint filler, leaving a joint gap compatible with the ceramic size.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Pay attention to the amount of water added to the mortar. Do not add more water than necessary.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Do not add water or powder to the expired product.

SHELF LIFE

Expires in 12 months. Store unopened packages in a dry environment, stack up to 10 products on the pallet.

HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FİXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FİXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.