

KRAFT FLEX GRANITE POWER

DESCRIPTION

It is a cement based, high polymer reinforced and high elasticity, water impermeable adhesive mortar used for bonding ceramic, marble, granite, glass, mosaic and similar materials to pools and similar wet floors.



TS EN 12004 - 1 Tile adhesive - Requirements, conformity assessment, classification and display

Conforms to class

C2TS1.

C2 = Cement-based adhesive enhanced with additional properties

T = Reduced slip property

S1 = Elastic

USAGE PLACES

- Indoor and outdoor-horizontal and vertical applications-over plaster and in-pool glass mosaic, granite applications
- In underfloor heated floors, swimming pools, bathrooms and wet areas
- Cold storage, thermal pools
- TECHNO KRAFT** filled primer should be used before coating on exposed concrete, gypsum plastered surfaces, gypsum board and ceramic on ceramic. Bonding should be done at least 24 hours after the application of **TECHNO KRAFT** filled primer.(see **TECHNO KRAFT** filled primer)

POINTS TO BE AWARE OF

- Do not apply on wood, OSB, PVC, bituminous surfaces, painted and metal surfaces.
- Do not apply within 24 hours on surfaces where frost hazard may occur.
- Avoid application under sun and strong wind. Application must be made when the surface temperature is between +5°C and +25 . °C
- White coloured adhesive materials set earlier than grey adhesives.
- In in-pool glass mosaic applications, the joints should be cleaned thoroughly after the mosaics are applied.
- It is recommended to use protective gloves during applications. For more detailed protective measures, please refer to the material safety data sheet of the product.

ADVANTAGES

- Single component, easy to prepare and apply.
- Due to its high water retention capacity, pot life and processing time is long.
- Adhesion strength is high. Does not slip vertically. It has vacuum effect.
- It is resistant to stresses that may occur due to temperature differences.
- It can be used indoors and outdoors, on surfaces where frost resistance is required.
- It can be used in ceramic bonding works on ceramic on horizontal and vertical floors. (It should be checked whether the ceramic coatings are intact. Poorly adhered coatings should be removed and glued again).
- It has a very high flexibility capability.
- White coloured adhesive mortar prevents reflection of mortar on the surface of coating materials such as marble.

SURFACE PREPARATION

The application surface must be clean, smooth and free of paint, scraped plasters that will prevent adhesion and leveled. Holes and cracks on the surface over 5 mm should be filled with **KRAFT Repair Mortar (thin or thick)** 2-3 days in advance (see **KRAFT Repair Mortar**). Otherwise, the coatings applied on the unsealed holes and cracks are at risk of cracking and breaking when exposed to point load. If the surface is not flat enough, the floor should be levelled with **TECHNO KRAFT Self Leveling vertical KRAFT Ready-Mixed Plaster** (see **TECHNO KRAFT Self Leveling - KRAFT Ready-Mixed Plaster**). On very porous surfaces and in hot weather applications (if the surface temperature is above +25 °C), the surface must be moistened beforehand in order for the surface to reach the appropriate temperature. This will prevent the adhesive from losing its water fast.

VARLIK MINERAL GEOTHERMAL ENERGY MINING CONSTRUCTION TRADING CO.

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TECHNICAL DATA SHEET


USAGE METHOD

1 Bag (25 kg) **KRAFT FLEX GRANITE POWER** (grey or white) is slowly added into 6-6,5 kg of water and mixed for 5 minutes with a 400-600 rpm mixer until it reaches paste consistency. The mixture **is left to rest for minimum 5 minutes**, then mixed again and applied to the surface with a suitable trowel. According to the size of the coating to be laid, **appropriate combing** is done, the coating materials are laid and fixed on the surface with the help of a rubber mallet. In order to ensure and increase the contact of the coating material with the adhesive, the material to be coated is floated in the mortar. (Ceramic, granite or material to be coated is placed on the adhesive surface by moving up and down and left and right. During the bonding of large-sized granite or coating materials, the adhesive mortar should be applied approximately 1-2 mm behind the coating). After the material is pulled to the surface with a trowel and combed, it should be adhered according to the air temperature and climatic conditions in which the material is used. In such cases, the adhesive is pressed with a finger and the adhesive surface is checked. If the material gets on the fingers, the bonding process is continued. Otherwise, the bonding process should be terminated and the dried adhesive material should be scraped off the surface and new adhesive should be applied to the surface. The adhesive applied surface should be protected from frost within the first 24 hours. All tools and equipment used after the application should be cleaned with water before the mortar dries. The manufacturer's information written on the packaging should be taken into consideration before and during the application.

EXPENDITURE

Ceramic Sizes	Ceramic Comb Tooth Size	Consumption (kg/m ²)
Glass mosaic	3-4 mm	2.5-3 kg
up to 15 cm x 15 cm	6 mm	4 kg (single sided) 5 kg (double sided)
up to 30 cm x 30 cm	8 mm	5 kg (unilateral) 6,5 kg (double-sided)
larger than 30 cm x 30 cm	10 mm	6 kg (single sided) 7.5 kg (double-sided)

TECHNICAL SPECIFICATIONS

Colour	Grey-White	
Material Content	Contains admixed cement, mineral filler and water repellent polymer additives.	
Tensile Bond Strength-concrete surface (EN 12004)	<p>DIN EN 12004-1 Improved cementitious adhesive for tiles -Reaction to Fire Class A1 -Release of Hazardous Substances (Release of dangerous substances) see MSDS</p> <p>Bond Strength -Early Tensile Bond Strength does not apply (Early Tensile Adhesion Strength) -Initial Tensile Bond Strength (Initial Tensile Adhesion Strength) ≥ 1.0 N/mm²</p> <p>Durability -Tensile Adhesion Strength after Heat Aging (Tensile Adhesion Strength after Heat Storage) ≥ 1.0 N/mm² -Tensile Adhesion Strength after Wet Storage (Tensile Adhesion Strength after Wet Storage ≥ 1.0 N/mm² Tensile Adhesion Strength after Thaw-Freeze Cycle (Tensile Adhesion Strength after Thaw-Freeze Cycle) ≥ 1.0 N/mm²</p>	
Transverse Deformation	2.5mm ≤ S1 ≤ 5mm	
Grain Size (EN 12192-1)	D _(max) < 0.8 mm	
Mixing Ratio	25 kg powder + 6-6,5 kg water	
Application Thickness	3mm - 10mm	
Temperature Resistance	-40°C / +100°C	
Maturation Time	min 5 minutes	
Container Life	2 hours	
Slip (mm) (EN 1308)	≤ 0.5mm	
Wettability (EN 1347)	%99	
Joint Application	After at least 24 hours on the wall and floor	
Opening Time to Traffic	At least 24 hours after grouting	

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	After at least 24 hours for light pedestrian traffic After at least 7 days for complete pedestrian traffic
Shelf Life	12 months from the date of manufacture under appropriate storage conditions When not in use, the packaging should be tightly closed and the material should be consumed within 1 week at the latest.

The above values are valid at +21 °C and 50% relative humidity.

PACKAGING and STORAGE

CODE	PACKAGING
KR-805	KRAFT FLEX GRANITE POWER grey (25 kg)
KR-809	KRAFT FLEX GRANITE POWER white (25 kg)

Store the material in its unopened packaging in a dry environment, protected from frost. Do not stack pallets on top of each other especially for long term storage.

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