

GRANIFLEX

PORCELAIN CERAMIC & GRANITE ADHESIVE



DESCRIPTION

- Cement based, high performance easy-to use tile adhesive with reduced slip features, extended open time, modified high flexibility, and used for bonding porcelain and granite tile materials.

INTENDED USES

- Horizontal and vertical applications of interior surfaces,
- Horizontal and vertical applications of exterior surfaces,
- In Terraces,
- Underfloor heated areas,
- In areas with heat fluctuations,
- In areas exposed to heavy load traffic,
- Tile on tile applications (after application of **SS-41 Tile primer**),
- On exposed concrete (after application of **BB-12 Exposed concrete primer**)
- On gypsum plaster, gypsum plasterboard surfaces (after application of **UA-34 General purpose primer**),
- In wet areas such as bathroom-kitchen (after waterproofing is done),
- On surfaces such as concrete, screed, plaster, It is used for bonding porcelain and granite tile materials.

PROPERTIES

- Easy to use. Desired consistency can be achieved by mixing only with water.
- Has high adhesion strength.
- Resistant to freeze-thaw cycle.
- Does not slip in vertical applications.
- Extended open time. Open time is 30 minutes.
- Resistant to surface tension caused by temperature differences.
- S2 class is highly flexible.

SURFACE TREATMENT

- Surface must be clean, dry, smooth and solid.
- Surface must be cleaned from oil, dirt and paint residues that will prevent adhesion.
- Fractured and hollow areas on the surface must be repaired with **REPAIR SW Waterproof structural repair mortar** at least 24 hours prior to application.
- Dusty surface behind tiles must be moistened by wiping. Surface must be moistened in applications above 35 °C.

TECHNICAL DATA

Appearance	: Grey and white powder
Application temperature	: (+5°C) - (+30°C)
Temperature resistance	: (-30°C) - (+60°C)
Open time	: 30 minutes
Time required for grouting	: 24 hours
Pot life	: 3 hours
Application thickness	: 3-10 mm
Time required for foot traffic	

- These values are obtained under laboratory conditions ((23±2) °C temperature, 50% relative humidity) and may differ due to worksite conditions.
- **YILDIZ YAPI KİMYASALLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ** is not responsible for the application errors that may arise if the application conditions and precautions outlined above are not followed for the purpose of the product.

APPLICATION

- Slowly pour 25 kg **GRANIFLEX** powder into 6.5-7 Litre water and thoroughly mix it for 3-5 minutes with a low-speed mixer until it becomes a smooth, homogeneous substance.
- Do not add any additional additives, unless mentioned in the instructions.
- Rest the prepared mortar for 5 minutes and stir it again for 1-2 minutes before application.
- Spread the mortar onto the substrate with notched trowel of which notch size is appropriate to the tile dimension and the smoothness of the application surface.
- Before applying the comb, mortar is applied on the floor where the application will be made and it should be scraped in a thin layer. Then, by applying mortar again, the comb should be drawn by giving a 60 ° incline with the appropriate size trowel.
- Large-size coating materials should be bonded in a horizontal direction, and do not proceed to next row until the first row has gained initial strength. When applying on facades without window details, expansion joints should be left at a distance of 4-5 meters and polyurethane sealant should be used.
- Tiles should be bonded within 30 minutes by applying a force with a rubber hammer on the combed mortar. Bonding process should not be done if the mortar expired the open time, the mortar should be scraped off the surface.
- After 24 hours from the application of **GRANIFLEX**, application is completed with **FUGAFLEX Silicone additive flex tile grout** according to the appropriate joint width.

WARNINGS AND RECOMMENDATIONS

- It is not suitable to use on areas where fast application is required, metal surfaces and wood floors.
GRANIFLEX is suitable for use within 30 minutes of application to the surface to be applied.
- Use in excess of 30 minutes is not appropriate.
- Do not apply during extremely hot, windy and rainy weather.
- Double-sided application is recommended as the size of the tile increases.
- After application of **GRANIFLEX**, direct contact with water must be avoided for at least 24 hours.
- Do not breathe the powder or contact with skin or eyes as it is cement-based.
- After application, hands and applications tools should be thoroughly washed with water.
- During application, surface must be protected from wind and direct sunlight.
- The indicated consumption amount is general information and may differ due to application conditions and surface features.

Yıldız Yapı Kimyasalları San. ve Tic. Ltd. Şti.

KOCAELİ KOBİ Organize Sanayi Bölgesi 18. Cadde No: 22 Köşeler - Dilovası / KOCAELİ / TURKEY

+90 (216) 469 66 33 +90 (262) 728 11 10 | www.myfixyapikim.com | @fmyfixyapikimyasallari

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PORCELAIN CERAMIC & GRANITE ADHESIVE



PACKAGING

- 25 kg Kraft bag (Pallet 64 bags, 1600 kg)

COMPLEMENTARY PRODUCT(S)

- **REPAIR SW** Waterproof structural Repair mortar
- **FUGAFLEX** Silicone additive flex tile grout
- **SS-41** Tile primer
- **UA-34** General purpose primer
- **BB-12** Exposed concrete primer

QUALITY CERTIFICATES

- In Accordance with **TS EN 12004** standards and **C2TES2** class.
- **C2**: Cementitious tile adhesive with improved additional features
- **T**: Reduced slip feature
- **E**: Extended open time
- **S2**: Highly deformable, transverse deformation



CE	
YILDIZ YAPI KİMYASALLARI SAN. ve TİC. LTD. ŞTİ. İstanbul Mermerciler Küçük San. Sit. 18. Cad. No: 22 Köşeler Köyü - Dilovası / KOCAELİ 18 DoP number: 05.PB 12004.008	
TS EN 12004-1/2017 Cement-based Highly Deformable Ceramic Adhesive with improved additional features, reduced vertical slip and extended open time. C2TES2 GRANIFLEX Suitable for interior and exterior use EN 12004:2007+A1:2012	
High initial tensile adhesion strength	: ≥ 1.0 N/mm ²
High tensile adhesion strength after immersion in water	: ≥ 1.0 N/mm ²
High tensile adhesion strength after heat aging	: ≥ 1.0 N/mm ²
High tensile adhesion strength after freeze-thaw cycles	: ≥ 1.0 N/mm ²
Extended open time: Tensile adhesion strength	: After 30 minutes ≥ 0.5 N/mm ²
Slip	: ≤ 0.5 mm
Highly deformability, transverse deformation	: S2, ≥ 5 mm
Fire reaction class	: B-s1,d0
Does not contain dangerous substances	

CONSUMPTION

TILE	TROWEL	CONSUMPTION
120 cm ²	6x6x6 mm	4 kg/m ² for single-sided application 5-6 kg/m ² for double-sided application
120 cm ² -500 cm ²	8x8x8 mm	5 kg/m ² for single-sided application 6.5 kg/m ² for double-sided application
500 cm ² -3600 cm ²	10x10x10 mm	5.5 kg/m ² for single-sided application 7-8 kg/m ² for double-sided application

SHELF LIFE

- Shelf life of an unopened package stored in a dry, cool place is 12 months from the date of manufacture.

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