

# weber.kol flex granit

## Flexible tile adhesive for granite ceramic and glazed porcelain

Technical Data Sheet  
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### ■ Description

Cement based flexible tile adhesive with reduced slip, extended open time and improved with additional qualities.

### ■ Advantages

- Safe and durable adhesion for granite ceramic, glazed porcelain and similar coatings.
- Extended open time.

### ■ Range of application

- Used for fixing ceramic, granite ceramic and glazed porcelain at interior and exterior walls and floors.

### ■ Application substrates

- Interior walls;
  - Cement based render
  - Gypsum block, gypsum board and gypsum plaster (**weber.prim AS** or **weber.prim art** applied)
  - Concrete
  - Existing tile (**weber.prim TG 5** applied).
- Exterior walls;
  - Cement based render
  - Concrete
- Interior floors;
  - Cement based screed
  - Concrete floor
  - Existing tile (**weber.prim TG 5** applied)
- Exterior floors;
  - Cement based screed
  - Concrete floor
- Private swimming pools;
  - Cement based render and screed
  - Concrete

*Please see current "weber solution guide" for coating types and max. coating sizes to be applied with **weber.kol graniflex** on these surfaces.*

- Please consult us for all other application substrates.

### ■ Limits of application

- Not applicable on metal surfaces (**weber EP 800** or **weber EP easy** should be used).
- On exterior walls, max. coating size is 1100 cm<sup>2</sup>, height is 3 m.
- Not applicable on floors with heavy traffic (e.g.: industrial areas) (**weber.kol flex konfor konsantre** or **weber.kol flex konfor** should be used).
- Not applicable of prefabricated or floor heating floors.

### ■ Application properties

- Pot life: max. 4 hours,
- Open time: max. 30 minutes,
- Adjustability: max. 20 minutes,
- Time required for grouting: 24 hours (on floor and wall)
- Time required for foot traffic: 24 hours,
- Application thickness: 3 to 10 mm (one or both sides applications).

### ■ Performance

- High initial tensile adhesion strength:  $\geq 1 \text{ N/mm}^2$
- High tensile adhesion strength after water immersion:  $\geq 1 \text{ N/mm}^2$
- High tensile adhesion strength after heat aging :  $\geq 1 \text{ N/mm}^2$
- High tensile adhesion strength after freeze-thaw cycles:  $\geq 1 \text{ N/mm}^2$
- Extended open time: tensile adhesion strength:  $\geq 0,5 \text{ N/mm}^2$  after not less than 30 min.
- Transverse deformation: 2,5 mm  $\leq S_1 < 5$  mm
- Slip:  $\leq 0,5$  mm.
- Heat resistance: between -30 °C and +60 °C.

*These values were obtained as a result of laboratory tests and they are valid for 28 days performance of finished applications. Values may vary due to differences on jobsites.*

### ■ Reference standards

- TS EN 12004/C 2TES1 class
- CE
- Public Works Pos No: 04.380/008

*Please see current "weber solution guide" for the classification introduced by TS EN 12004 norm about tile adhesives.*

### ■ Attention points

- White **weber.kol flex granit** should be used for light ceramic glazed porcelain and similar coatings.
- Never add foreign materials.
- All tools should be cleaned with water before drying after the application.

### ■ Preparation of substrates

- The surface should be dry, smooth and durable, plasters thinner than 3 mm on the substrate should be scraped and cleaned thoroughly.
- Very porous substrates should be wetted. Wait until the water layer disappears as the floor will remain damp.
- Important deformations or holes on the substrate should be repaired with **weber.rep MA 200** minimum 24 hours before the application of **weber.kol flex granit**
- Local repairs thinner than 7 mm can be done by use of **weber.kol flex granit**

### ■ Conditions of application

- Ambient temperature is between +5 °C and +35 °C.
- It should not be used on substrates which are frozen or melting or have the risk of frost within 24 hours.
- Avoid application under direct sunlight, strong wind or hot surfaces.
- Avoid film formation by **weber.kol flex granit** during application, if film is present, that area should be notched again.

## ■ Application

- For grey color average 7,75-8,25 lt, for whiter color average 6,75-7,25 of water and 25 kg **weber.kol graniflex** should be mixed with low-speed mixer preferably or trowel until no more lump will remain.
- After aging **weber.kol graniflex** for 5 minutes, it should be mixed for further 1-2 minutes before application.
- The mortar should be applied on the substrate and its thickness should be adjusted with steel notched trowel. Tooth size of trowel should be adjusted according to dimensions of tile and smoothness of application substrate.
- Mortar should be applied on both application substrate and backside of tiles below-mentioned sizes (back buttering).
- For granite ceramic, glazed porcelain, natural composed stone, etc:
  - Interior floor applications: 500 cm<sup>2</sup>
  - Interior wall applications: 120 cm<sup>2</sup>
- For ceramic, tile etc.
  - Interior wall and floor applications: 1100 cm<sup>2</sup>
  - All exterior wall and floor applications.
- For good adhesion force should be applied by means of rubber hammer and air should be ejected.

## ■ Consumption

Tile dimensions	Notched trowel	Consumption
120 cm <sup>2</sup>	6x6x6 mm.	One-sided adhesion 4 kg./m <sup>2</sup> Double-sided adhesion 5-6 kg./m <sup>2</sup>
120 cm <sup>2</sup> and 500 cm <sup>2</sup>	8x8x8 mm.	One-sided adhesion 5 kg./m <sup>2</sup> Double-sided adhesion 6,5 kg./m <sup>2</sup>
500 cm <sup>2</sup> and 3600 cm <sup>2</sup>	10x10x10 mm.	one-sided adhesion 5,5 kg./m <sup>2</sup> double-sided adhesion 7-8 kg./m <sup>2</sup>

## ■ Packaging

Net 25 kg bag (64 bags in pallet, 1600 kg).

## ■ Pallet size

107 x 107 cm.

## ■ Color

White and grey.

## ■ Application tools

Hand mixer, trowel, rubber hammer, steel notched trowel.

## ■ Shelf life

1 year as of the production date in dry and moisture-free environment provided that packages will not be opened.

Package should be kept tightly closed when not in use.

➤ The stated times apply for 20 °C substrate and ambient temperature and increase at lower temperatures and decrease at high temperatures.

➤ **Saint-Gobain Weber Yapı Kim. San. ve Tic. A.Ş.** is not responsible for the application errors arising from use of product beyond its intended purpose or failure to comply with the foregoing application conditions and advice on the product.



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