

Tilex® G5

Tiling Grout for Joints / with Filling and Sealing Properties

Tilex G5 is a powder based on cement improved by special polymers, repair admixtures, and powder color. This powder has high bonding properties and good strength against water and moisture. This product is resistant to fungus and mold and does not change color.

This product is produced based on the Iran National Standard No.10760-3. Also, this product meets the requirements of the ISO 13007-3 Standard.

The physical and chemical properties of the Tilex G5 are according to the following table and produced in the allowable range of the Iran National Standard No.10760-3.

Physical State	Powder
Color	All Colors
Density	1/33 ± 0/01 g/cm ³
Density Of The Paste	1/83 ± 0/02 g/cm ³
Chloride Content	Little

The usage and effect of the grout for joint

The usage of the grout

- Jointing different types of ceramics, tiles, stone, concrete sections, etc.
- Jointing different types of joints

The advantages of using grout for joints

- It has significantly high strength and bonding
- It has high bonding to beneath the work
- It is moisture-resistant after drying
- It is resistant to fungus and mold
- Without shrinkage and cracking for jointing up to 12 mm.
- It has different and special colors.
- It is easy-to-use
- It is resistant to environmental, chemical, and erosion factors.
- It is resistant to freezing and thawing cycles.

The instruction to use the product

The allowable range and instruction to use the grout for joints

The amount of using Tilex G5 depends on the dimension of the joints. The exact amount of this product can be calculated with respect to the dimensions of the tiles, ceramics, and joints between them via the following formula:

Length of the tile: A Width of the tile: B
The thickness of the joint: C Depth of the joint: D

$$\text{Dosage} = \frac{(A+B)*C*D*1.8}{(A*B)} \text{ Kg/m}^2$$

- 1- Surface preparation:** The desired surface must be fully cleaned from contaminations like dust, oil, and other contaminations. It is better to wet the surface beneath the work before jointing.
- 2- Mixing:** Mix the Jointing powder of G5 with an amount of water of 25% of the weight of the powder to obtain a uniform and homogenous paste. Then stop mixing for 2 to 3 minutes and remix. After mixing the Tilex G5 powder with water, the prepared product must be applied on the surface in less than 30 minutes by a chisel. The temperature of the surface while jointing must be 5 to 40°C. Keep the surface wet for 24 hours after finishing the process.

Note:

Use the paste for horizontal joints of 3 to 12 mm. On the other hand, it is recommended to use a consistent form by adding more water to the powder to reach a better filling of the horizontal joints with less than 3 mm thickness.

Safety tips for using the grout for joints

This product is not categorized as a dangerous substance; however, it is highly alkaline and can be allergic in contact with skin and respiratory mucus. Therefore, it is necessary to use a suitable gown, goggles, and mask while working and take the following tips into consideration:

- Blink in water for at least 15 minutes in case of eye contact
- Wash your skin with clean water for 15 minutes in case of any contact with the skin
- The contaminated clothes must be washed with suitable detergents to be usable for further work.
- It is necessary to visit a doctor if the injured individual still feels uncomfortable

Other necessary notes in using the product

The corrosion of the grout for joint

This product does not start or extend corrosion in the buried bars in concrete, the pre-stressed steel, floor systems, and the roof made of galvanized steel.

Transportation and storage of the product

The conditions and maintenance temperature of transportation

The allowable transportation and maintenance temperature of this product is between 5 and 35°C. It is also necessary to consider the following tips:

- Avoid putting the container having the admixture in direct exposure to sunlight and a wet environment.

The admixture lifetime

If the containers of this product are conserved and stored in a standard condition, they will be usable for 24 months.

The packaging

This product is supplied in 1, 5, and 20 kg packets.

Complementary information

Contact the technical section of Capco Company for complementary information. You can also refer to the performance form of (Tilex G5 -PPI) G5 for more information on the performance of this product.