

byk®



BYK 1005 FUGA

Cement ve Polymer Based Grouting for Tiles, Ceramics, Porcelain

BYK 1005 FUGA, is used in joints of materials such as cement-based ceramics, tiles and glass mosaics.

In compliance with TS EN 13888 – CG2A standards.

CG : Cement Based Grouting
2 : Additional Features Improved
A : High Wear Resistance

FIELDS OF APPLICATION

- For indoor and outdoor applications, vertical and horizontal applications,
- Hotel, hospital, shopping center, housing, in all wet areas

ADVANTAGES

- Mixed only with water.
- Easy to prepare and apply,
- 0-8 mm. Suitable for width-bearing joints,
- Resistant to water and frost,

TECHNICAL FEATURES

Structure of the Material	Special cement, mineral fillings, polymers additives
Density	1,85 kg/lit
Colour	White and Colors
Compressive Strength	≥ 15 N/mm ²
Flexural Strength	$\geq 2,5$ N/mm ²
Wear Strength	<1000 mm ³
Application Thickness	0-8 mm
Application Surface Temperature	+5°C / +35°C
Service Temperature	-40°C / +80°C
Initial Curing Time	3-5 minutes
Workable Time	1 hour
Opening the Traffic	24 hours

The values above are given for +23°C and 50% relative humidity. While higher temperatures shorten the period, lower temperatures extend it



APPLICATION PROCEDURE

Preparation of the Substrate

Making strength of adhesive should be expected before starting joint sealant application. 48 hours of waiting time is generally sufficient. The grout in the joints should be cleaned and the joints should be emptied. Joints of highly absorbent materials must be moistened before filling.

Mixing

Clean water as described on the package is put into a clean mixing bowl. When the **BYK 1005 FUGA** bag is opened slowly into the water, it is about 3 minutes until it is homogenous with the 400-600-speed mixing drill. Mixed. The material should not remain in the pellet. After resting the material for 3 minutes again 1 min. ready for application by mixing. Different water ratios and different forms of mixing may cause unwanted colour differences.

Mixing Ratio

For 20 kg/1 bag of **BYK 1005 FUGA** approximately 6,00-6,50 lt of water should be used.

Application

The mixed material is placed with rubber trowel by making diagonal movements to the joints. In deep joints, the material should first be expected to collapse and then this process should be repeated. In extreme hot weather and on absorbent surfaces, the joint material may suddenly lose water and cause surface cracks. Therefore, the joints must be moistened with a wet sponge before application. When the materials left to dry are pressed against finger pressure, the surfaces are finalized with a wet sponge and the remaining material on the ceramic surface is cleaned.



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Consumption

Variable

Consumption Table for Cement Based Grouting (Depth: 8 mm) Values are given in gr / m².

Ceramic Dimensions	2 mm	3 mm	4 mm	5 mm	6 mm
10x10	550	800	1100	1350	1600
10x20	400	650	850	1050	1250
15x15	450	650	900	1000	1350
15x20	300	500	650	800	1000
20x20	300	450	600	750	900
20x25	275	400	500	700	800
20x30	250	375	500	600	750
30x30	200	300	400	500	600

Package

20 kg Kraft Bag

Cleaning of Application Tools

Tools and equipments should be clean with water after application.

Watch Points

- In **BYK 1005 FUGA** application, suitable temperatures should be expected if ambient and surface temperature are below + 5 ° C or above + 35 ° C. It should not be applied in extremely hot, rainy or very windy weather.
- In outdoor applications, for the first 24 hours should be protected from sun, rain, wind and freezing.
- Working and reaction times in grouting mortars are affected by air temperature, humidity and floor temperatures.
- High temperatures accelerate hydration and the working time is shortened accordingly. Low temperatures slow down hydration and thus extend the working time. For the material to be completed, the floor temperature and ambient temperature to be applied must not fall below the minimum permissible temperature.



Shelf Life

Shelf life is 12 months from the date of production when stored properly at +5 oC to +30 oC at room temperature, away from direct sunlight. Opened packages should be consumed within 1 week by closing the mouths.

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 2 palettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palettes should not be placed on top of each other during long term storage.

Health and Safety Precautions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **BYK Binyapı Co.** is only responsible for the quality of the product. **BYK Binyapı Co.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.