



BYK 1013 BLOCKTECH

Extra Quality Gas Concrete Bonding Grout

BYK 1013 BLOCKTECH is a cement and polymer based aerated concrete adhesive.

FIELDS OF APPLICATION

- Bonding of aerated concrete and any other high water absorbing construction elements.

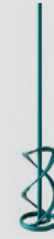
ADVANTAGES

- Mixed only with water
- Perfect adherence.
- Easily trowellable.
- Labor-cost effective
- Long workable time

TECHNICAL FEATURES

Structure of the Material		Special cement, mineral fillings, polymer additive
Density		1,70 kg/lt
Colour		Gray, White
Compressive Strength	28 days	$\geq 0.5 \text{ N/mm}^2$
Application surface Temperature		+5°C / +35°C
Service Temperature		-40°C / +80°C
Initial Curing Time		3-5 minutes
Workable Time		20 minutes
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

The surface of to be applied must be dust free and free from debris. Also, the mechanical dicing process has to be completed.

Mixing

The appropriate amount of water described on the package is poured into a clean mixing container. **BYK 1013 BLOCKTECH** bag is opened and added slowly into the water. It is mixed for about 3 minutes until it is homogenous with 400 - 600 rpm mixing drill. There should be no lumps in the material. After the material is rested for about 3 minutes, it is mixed again for 1 minute and made ready for application.

Mixing Ratio

For 25 kg/1 bag of **BYK 1013 BLOCKTECH Gray** approximately 5,50-7,25 lt of water should be used.

For 25 kg/1 bag of **BYK 1013 BLOCKTECH White** approximately 6,50-8,25 lt of water should be used.



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Application

Spread the mortar onto the substrate with notched trowel of which notch size is 10x10x10 mm. While laying the blocks, vertical and horizontal joints should have maximum 3 mm width and fill them completely with

Consumption

A (cm)	B (cm)	C (cm)	Consumption (kg/m ²)
20	50	20	5-8
20	70	20	5-7
30	50	15	3-5
30	70	15	3-4
30	50	20	4-6
30	70	20	4-6

Package

25 kg Kraft Bag

Cleaning of Application Tools

Tools and equipments should be clean with water after application.

Watch Points

- In **BYK 1013 BLOCKTECH** 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 adhesive 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 Binyapi Co.** is only responsible for the quality of the product. **BYK Binyapi 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.