

# byk®



## BYK 1012 PLUS BOARDPLAST

### Super Quality EPS,XPS and Thermal Insulation Board Plaster

BYK 1012 PLUS BOARDPLAST is a cement, polymer based and fiber reinforced XPS, EPS and thermal insulation board plaster.

#### FIELDS OF APPLICATION

• It is used for plastering XPS, EPS, Thermal Insulation boards and concrete surfaces. **BYK 1101 PRIMER** should be used before application on concrete surfaces.

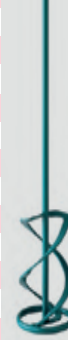
#### ADVANTAGES

- Mixed only with water.
- Provides excellent adhesion.
- Fiber reinforcement prevents the formation of superficial cracks.
- Easy to prepare and apply.
- Long working time.
- Provides surface ready for application of paint or mineral plaster.
- Resistant to freeze-thaw effect.

#### TECHNICAL FEATURES

Structure of the Material	Special cement, mineral fillings, polymer and fiber additive
Density	1,83 kg/lit
Colour	Gray, White
Adhesion Strength (Concrete) 28days	$\geq 2,20$ N/mm <sup>2</sup>
Adhesion Strength (Board) 28days	$\geq 0,08$ N/mm <sup>2</sup>
Compression Strength	$\geq 17,9$ N/mm <sup>2</sup>
Flexural Strength	$\geq 4,6$ N/mm <sup>2</sup>
Application thickness	3mm – 5mm
Application surface Temperature	+5°C / +35°C
Service Temperature	-20°C / +80°C
Initial Curing Time	3–5 minutes
Workable Time	1 hour

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



#### APPLICATION PROCEDURE

The surface of the thermal insulation plate 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 1012 PLUS BOARDPLAST** 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 1012 PLUS BOARDPLAST Gray** approximately 6,00 – 7,00 lt of water should be used.  
For 25 kg/1 bag of **BYK 1012 PLUS BOARDPLAST White** approximately 6,50 – 7,50 lt of water should be used.



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### Application

The thermal insulation boards are mechanically anchored after being bonded with **BYK 1011 BOARDFLEX**. After a layer of plaster is applied on the board, the plaster net is properly embedded in the 1st layer plaster. After the 1st floor is dried, the second layer plaster is applied and the plaster process is completed. Application thickness can be 3-5 mm.

### Consumption

Depending on the tooth thickness of the ceramic tile to be used, the consumption varies between 5-7 kg/m<sup>2</sup>.

### Package

25 kg Kraft Bag

### Cleaning of Application Tools

Tools and equipments should be clean with water after application.

### Watch Points

- In **BYK 1012 PLUS BOARDPLAST** 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 plaster 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.