



Bia-Fix Super Flex Adhesive (Gray)

High Performance, Flexible, Ceramic, Porcelain and Granite Bonding Filler

Cement based, polymer additive, flexible, ceramic, porcelain, granite, marble, natural stone, pressed brick and glass mosaic bonding mortar with gray color, slip feature, long working time, easy to prepare and applied.

Reference Standarts

- TS EN 12004
- EN 12004 C2TE class
- Public Works Item: 04.013/1 - 04.013/4

Areas of Usage

- Indoors and outdoors
- In horizontal and vertical applications
- Ceramic, porcelain, granite, marble, natural stone, pressed bricks and glass mosaics; on cement based surfaces exposed to temperature differences and on gypsum panel sheets and gypsum plaster surfaces (after primer application)
- Swimming pool, water storage, bathhouse, bath, etc. In wet areas, on heated floors, in heated pools, in swimming pools where water is not drained in winter,
- In the walls and upholstery of cold weather stores,
- It is used for ceramic and granite bonding works on exterior facades of buildings, for repairing and repairing, for bonding ceramic on ceramic.

Advantages

- Mix with water only,
- Easy to prepare and apply.
- The processing time is long,
- Does not slip in vertical applications,
- It is resistant to the freeze-thaw cycle.
- Resistant to stresses and vibrations caused by temperature differences,
- Provides excellent adhesion.

Technical Specificaion

Structure of Material	: It contains mineral fillers, synthetic admixtures. and special polymers.
Color and View	: Gray and powder form.
Application Temperature	: Between (+5°C) and (+35°C)
Mixture Ratio	: 6 - 6,75 lt water / 25 kg powder
Duration of Ripening	: 5 - 10 min.
Cup Life	: 2 hrs.
Slip (EN 1308)	: 0,5 mm
Open Waiting Time (EN 1346)	: Minimum after 20 min. 0,5 N/m m ²
Usage Time	: 8 hours on the wall t; 24 hours on the floor
Consumption	: 4 - 6 kg/ m ²
Post-Application Temperature Strength	: (-30°C) to (+80°C)
Tensile Adhesion Strength (TS EN 1348)	
Start	: 1,0 N/m m ²
After the water has been immersed	: 1,0 N/m m ²
After heat aging	: 1,0 N/m m ²
After freeze-thaw cycles	: 1,0 N/m m ²
Fire Response	: A1

Note: Above values are given at +23°C and 50% relative humidity. High temperatures shorten the duration, lower temperatures prolong the duration.

Preparation of Surface

The surface to be applied must be solid, cleaned of all kinds of oil, rust, paraffin, paint, bitumen residues and all loose parts which will prevent sticking to the floor. Hole in the surface, curvature, etc. disturbances should be repaired with **Bia-Crete HS-1040** or other **Bia-Crete** series mortars at least 72 hours prior to application of **Bia-Fix Super Flex Adhesive (gray)**. Porous and highly absorbent surfaces should be wetted and the surface should be moistened. The dusty surface behind the ceramic should be dampened and wiped off.

Preparation of Mortar

For 25 kg **Bia-Fix Super Flex Adhesive (gray)** 7,75 - 8,25 lt water is poured into a clean mixing cup. On the **Bia-Fix Super Fleks Adhesive** is added slowly while stirring with a mixer of 400 - 600 rpm. The mixture is stirred for about 3 - 5 minutes until it is completely homogeneous and allowed to setting for about 5 - 10 minutes. Then again 1 - 2 min. are mixed and ready for application. There should be no lumps in the material. There should not remain any lumps in the material and the mixture that is prepared within the 2,5 - 3 hours should not be consumed.

Mixing Rates

Bia-Fix Super Flex Adhesive (Gray)	For 1 kg powder	For 25 kg kraft bag
WATER MIXTURE AMOUNT	0,24 - 0,30 litre	6 - 6,75 litre
MIXED DENSITY	1,58 kg/lt	

Application Information

To obtain a better adhesion surface; prepared mixture of **Bia-Fix Super Flex Adhesive (gray)** is spread with equal thickness to the surface with the flat part of the malt and then must be carded with a selected trowel suitable for the size of the tile or marble. Ensure that the adhesive mortar touches the entire backside of the ceramic and marbles. Depending on the ceramics-marble used and floor smoothness, if necessary, double-side bonding method is preferred; as well as to the surface must be driven with mortar and ceramic and marbles should be detected so that the carding direction is perpendicular to each other. This is especially necessary in outdoor environments and in climates where hot and cold temperature changes are severe. This process will ensure that the entire adhesion area of the material to be bonded is covered with mortar. It should be adhesives on the chiseling mortar within 30 minutes with the aid of rubber hammer to ensure good adhesion.

Points to Consider

Avoid application at temperatures below +5°C and above +35°C. Water usage should not be added to the spent water for the past usage period; the surface should not be pasted on the mortar, the mortar should be scraped from the surface and the new material should be prepared and combed. In addition, applications should be avoided on surfaces that are frozen, melted or at risk of freezing within 24 hours, or in extremely hot, rainy or windy weather.

Consumption

4 - 6 kg/m²

Packing

25,00 kg kraft bag.

Shelf Life

Stores up to 10 layers in a moisture-free environment for 12 months on pallets. Opened packages should be kept tightly closed in a dry place and used within 1 week.

Security Precautions

During the application, it must be used, in accordance with the Occupational Health and, Safety, the work clothes, protective gloves, goggles. Due to the irritant effects of curing materials, the components should not



come into contact with the skin and the pore, in case of contact with plenty of soap and washed, if swallowed, seek medical advice immediately. Application areas should be ventilated and food and drinks stuffs should not be put into application areas. It should be stored at places where children can not reach it. For detailed information safety data sheet (Material Safety Data Sheet).

Responsibility

The information given in this technical document is based on our scientific and practical knowledge. Orkim Ortaklar Boya Sanayi ve Pazarlama A.Ş. it is only responsible for the quality of the product. Orkim Ortaklar Boya Sanayi ve Pazarlama A.Ş. shall not be held liable for any consequences which may arise from outside of the written suggestions about where and how the product will be used and/or due to incorrect use. The responsibility of applying our product correctly is the responsibility of the user.