



Bia-Fix SYG-25

Cement Based Tile and Ceramic Adhesives

It is the faience based cement and ceramic adhesive mortar that is used in the adhering the faience and ceramic, that the sliding feature is reduced, easily prepared and used.

Reference Standards

- TS EN 12004 C1T class
- Public Works Item No: 04.013/1

Areas of Usage

- Indoors and outdoors
- In horizontal and vertical applications,
- On the concrete, liquid, cement finish surfaces,
- It is used in maximum 33 x 33 cm sized coating materials.
- In the adhering of the small - fair-sized ground and wall ceramic that the water absorption is over 3%.

Technical Specifications

| | |
|----------------------------------------|----------------------------------------------------------------------------|
| Structure of Material | : It contains mineral fillers, synthetic admixtures. and special polymers. |
| Color | : Powder form gray |
| Application Floor Temperature | : (+5°C) / (+35°C) |
| Mixture Ratio | : 6,5 - 7,0 lt water / 25 kg powder |
| Duration of Ripening | : 5 min. |
| Cup Life | : ~ 2 - 2,5 hours |
| Slip (EN 1308) | : ≤0,5 mm |
| Open Waiting Time (EN 1346) | : After Min. 20 min. ≥ 0,5 N/mm ² |
| Usage Time | : 8 hours on the wall; 24 hours on the floor |
| Consumption | : 3,5 - 5 kg/m ² |
| Post-Application Temperature Strength | : (-20°C) / (+80°C) |
| Tensile Adhesion Strength (TS EN 1348) | |
| Start | : ≥0,5 N/mm ² |
| After the water has been immersed | : ≥ 0,5 N/mm ² |
| After heat aging | : ≥ 0,5 N/mm ² |
| After freeze-thaw cycles | : ≥ 0,5 N/mm 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 SYG-25 (White)**.

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 SYG-25**, 7,75 - 8,25 lt water is poured into a clean mixing cup. On the **Bia-Fix SYG-25 Gray** is added slowly while stirring with a mixer of 400-600 rpm. The mixture is stirred for about 3-4 minutes until it is completely homogeneous and allowed to setting for about 5 minutes. Then again 1-2 min. are mixed and ready for application.

There should not remain any lumps in the material and the mixture that is prepared within the 2 - 2.5 hours should not be consumed.

Mixing Rates

| Bia-Fix SYG-25 (gray) | for 1 kg powder | For 25 kg kraft bag |
|-----------------------|-------------------|---------------------|
| WATER MIXTURE AMOUNT | 0,26 - 0,28 litre | 6,50 - 7,00 litre |
| MIXED DENSITY | 1,47 kg/lt | |

Application Information

To obtain a better adhesion surface; prepared mixture of **Bia-Fix SYG-25** 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. It should be adhesives on the chiseling mortar within 30 minutes with the aid of rubber hammer to ensure good adhesion.

Ensure that the adhesive mortar touches the entire backside of the ceramic and marbles.

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

3,5 - 5 kg/m² dir.

Packing

25 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.

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