

## INNO-FIX FOX FLEXMORTAR® FX116

**Cement and Polymer Dispersion Based, Reduced Slip, Long Working Time, High Performance, Very Flexible Tile, Granite, Marble, Natural Stone, Press Brick, Glass Mosaic Adhesive**

### Description

**FOX FLEXMORTAR® FX116** is a cement and polymer dispersion based, long-lasting adhesive with reduced slip, long working time, very flexible (super flex), high stability and performance, suitable for all kinds of climatic conditions, can be used indoors and outdoors, horizontally and vertically.

**It meets the requirements of EN 12004 -1:2017 C2TES2.**

**Public Works Pos. No: 04.01301-04.01304**

**C2 : Cement Based, Additional Features Improved, High Performance**

**T : Reduced slip**

**E : Open Waiting Time Extended**

**S2 : Very Flexible**

### Usage Areas

- Adhering materials such as tiles, ceramic marble, natural stone, pressed brick, glass mosaic to cement-based surfaces exposed to temperature differences in vertical and horizontal applications indoors and outdoors,
- It is used for bonding materials such as tiles, ceramics, marble, natural stone, pressed bricks, glass mosaics on gypsum board, cement particle board, heat insulation plates. It is recommended to use **FOX PRIMERA® FL220** primer in this and similar sheet applications.
- It is used in bonding processes in swimming pools, Turkish baths, water tanks, bathrooms, industrial floors and cold storages.
- It is used for bonding ceramics on ceramics in exterior coatings of buildings, renovation and repair works.
- It is used in places with heavy pedestrian and freight traffic.

### Advantages

- It mixes only with water.
- It saves time and labor with its long working time.
- It does not slip in vertical applications.
- Very comfortable and easy to apply.
- It is flexible, not affected by vibrations.
- Resistant to freeze-thaw cycle.
- Does not shrink.
- Thanks to its flexibility (S2 Class) feature, it is resistant to surface tensions caused by sudden temperature changes.

### Technical Data

Structure of Material	Special cement, mineral fillers, polymer additives
Density	1,75 kg/lt
Color	Gray, White
Splice Strength	28 days
Start	≥1,7 N/mm <sup>2</sup>
After immersion in water	≥1,9 N/mm <sup>2</sup>
After aging with heat	≥1,5 N/mm <sup>2</sup>
After the Freeze-Thaw cycle	≥1,3 N/mm <sup>2</sup>
Flexibility	≥1,9 N/mm <sup>2</sup>
Application Thickness	≥5 mm S2 very flexible
Application Surface Temperature	3-8 mm
Service Temperature	+5°C / +35°C
Ripening Time	-40°C / +80°C
Usage Time	3-5 minutes
Usage Time on Surfaces	2 hours
Slip (mm)	30 minutes
Walking Time on the Surface	None
Joint Application	24 hours later
Reaction to Fire Class	24 hours later
	A2

*The above values are given at +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.*



## Application Procedure Surface Preparation

### Cement Based Surfaces

The surfaces to be applied must be sound, free from all kinds of dust and dirt and must be in balance. The areas requiring repair should be repaired with **INNO-CRETE** series repair mortars at least 1 day before. If the surface temperature is above +20°C, the surface should be slightly moistened.

### Other Surfaces

Before applying on gas concrete, gypsum plaster, particle board, gypsum board, lime plaster surfaces with high water absorbency, **FOX PRIMERA® FL220** is diluted with 1/1 water as a primer and applied to the surface. Adhesion is done at least 8 hours after the primer is applied.

### Wood Chip-based Surfaces (OSB and Particleboards)

Wood chipboards should contain a maximum of 10% moisture. The wood chipboard applied to the floors should be a minimum of 25 mm, and a minimum of 19 mm to the walls. The boards should be screwed to the surface at intervals of 30 cm. The edge joint must be at least 8 mm wide. Joint gaps should be left at the joints of the chips and filled with **FOX PURSEAL PS600** (Polyurethane Sealant). Wood chipboards should be primed with **FOX UNIPRIMER FL555** or **FOX MULTIPRIMER FL888** in dry environments.

### Mixing

The appropriate amount of water described on the packaging is poured into a clean mixing bowl. The **FOX FLEXMORTAR® FX116** bag is opened and slowly added into the water, and mixed with a 400 - 600 rpm mixing drill for approximately 3-4 minutes until it becomes homogeneous. There should be no lumps in the material. After the material is rested for 3 minutes, it is mixed again for 1 minute to make it ready for application.

### Mixing Ratio

For 25 kg/1 bag of **FOX FLEXMORTAR® FX116 Gray**, approximately 8,00±0,25 lt of water should be used.

For 25 kg/1 bag of **FOX FLEXMORTAR® FX116 White**, approximately 8,5±0,25 liters of water should be used.

### Application

A 1mm thick **FOX FLEXMORTAR® FX116** layer is applied to the application surface with the flat side of the trowel. **FOX FLEXMORTAR® FX116** is applied to the area large enough to be covered within 30 minutes, which is the open waiting time, with the toothed side of the trowel in one direction to obtain a uniform thickness. When bonding ceramics or granites of different thicknesses, it is recommended to apply 1 mm thick **FOX FLEXMORTAR® FX116** to the back of each ceramic or granite in order to cover the defects on the application surface. When applying ceramics or granites to the surface, the coating materials are floated in the mortar to ensure that they are fully in contact with the adhesive mortar. The application is completed by leaving the recommended joint gap according to the appropriate ceramic and granite size. **INNO-FIX** Series joint fillers should be used to fill the left joint gaps. Joint application can be started after approximately 24 hours.

### Applicability Test

For the ceramic applicability test on the adhesive, the open waiting time should be checked. Fingers are pressed to the adhesive on the applied surface. If the adhesive gets on the finger, the application of gluing ceramics and tiles is continued. If the glue does not get on the finger, it means that the application time of the glue has passed. In this case, the adhesive should be scraped from the surface and new adhesive should be applied.

### Consumption

Coverage varies between 4-6 kg/m<sup>2</sup> depending on the tooth thickness of the ceramic comb to be used.

### Package

25 kg polyethylene reinforced kraft bag

### Watch Points

- In **FOX FLEXMORTAR® FX116** application, if the ambient and surface temperature is below +5°C or above +35°C, suitable temperatures should be expected. It should not be applied in extremely hot, rainy and very windy weather.
- It should be protected from sun, rain, wind and frost for the first 24 hours in outdoor applications.
- Working and reaction times in ceramic 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, which prolongs working time. In order for the material to complete its curing, the floor temperature and ambient temperature to be applied must not fall below the minimum allowable temperature.



### Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water immediately. **FOX FLEXMORTAR® FX116** can only be mechanically cleaned from the surface after hardening.

### Storage

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made on a first-in, first-out basis. In long-term storage, pallets should not be placed on top of each other.

### Shelf Life

Shelf life is 12 months from the date of production when properly stored at room temperature, away from direct sunlight between +5°C and +30°C. Opened packages should be closed and consumed within 1 week.

### Safety Precautions

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of soap and water. If swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, the Material Safety Data Sheet should be consulted.

### Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapı Malzemeleri San. ve Tic. Ltd. Sti. only responsible for the quality of the product. SARTECH Yapı Malzemeleri San. ve Tic. Ltd. Sti. cannot be held responsible. The responsibility for the correct application of our product belongs to the user. Our company is only responsible for the quality of the product. This catalog overrides the information in the previous catalogue. Our company reserves the right to make changes in any information and content details in this catalogue. It is essential to check that the information in the catalog is up-to-date and valid. All rights reserved.



www.foxbau.com

### SARTECH YAPI MALZEMELERİ SANAYİ VE TİCARET LTD. ŞTİ.

Merkez: Organize Sanayi Bölgesi 1. Kısım 7. Cadde No:6 Döşemealtı/ANTALYA  
Telefon: 0(242) 221 42 50 Fax: 0(242) 221 42 55  
Şube : Yaytaş Mah. Organize Sanayi 7. Cadde No:21 Yenişehir/DIYARBAKIR  
Web : www.foxbau.com E-mail : info@foxbau.com