

INNO-FIX

FOX CERAPLUS® FX112

Flexible Ceramic, Granite and Marble Adhesive Mortar

Description

FOX CERAPLUS® FX112 is a cement and polymer based, slip-reduced, extended open time, high adhesion performance, flexible adhesive mortar suitable for all climatic conditions, applicable on horizontal and vertical surfaces, for interior and exterior use, and designed for long-lasting bonding of materials such as ceramic, tile, porcelain ceramic and natural stone.

Complies with EN 12004-1:2017 C2TES1 requirements.

C2 : Cement Based, Improved Additional Characteristics, High Performance

T : Slip Reduced

E : Extended Open Time

S1 : Flexible

Areas of Application

- For interior and exterior use, in vertical and horizontal applications,
- On all types of concrete screed, plaster, render and cement-based substrates,
- For bonding materials such as tiles, ceramics, porcelain ceramics and natural stones over waterproofing layers in wet areas such as bathrooms, balconies and kitchens,
- For tile-on-tile applications in renovation and repair works,
- For bonding applications in swimming pools, Turkish baths, water tanks, bathrooms, industrial floors and cold storage rooms,

Advantages

- Provides time and labor savings with its extended open time.
- Does not slip in vertical applications.
- Ensures fast and easy application.
- Allows application on gypsum-based substrates.
- Resistant to freeze–thaw cycles.
- Adapts to substrate stresses caused by temperature differences and is not affected by them

Technical Properties

Material Structure		Special cement, mineral fillers, polymer additives
Color		Grey,White
Mortar Density		1.70±0.05 g/cm ³
Adhesion Strength		
Initial Tensile Adhesion Strength	EN 12004-2:2017	≥1.0 N/mm ²
After Water Immersion	EN 12004-2:2017	≥1.0 N/mm ²
After Heat Aging	EN 12004-2:2017	≥1.0 N/mm ²
After Freeze–Thaw Cycles	EN 12004-2:2017	≥1.0 N/mm ²
Application Thickness		Between 3-10 mm
Substrate Application Temperature		+5°C/+30°C
Service Temperature		-20°C/+80°C
Maturation Time		3–5 minutes
Pot Life		~5 hour
Open Time	EN 12004-2:2017	30 minutes
Flexibility (Transverse Deformation)	EN 12004-2:2017	≥2.5 mm S1
Slip (mm)	EN 12004-2:2017	≤0.5 mm
Walkability Time		After 24 hours
Grout Application		After 24 hours
Reaction to Fire Class	EN 15301-1	A2-s1,d0

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, while low temperatures extend it.



FOX BAU YAPI KİMYASALLARI ANONİM ŞİRKETİ

Merkez: Organize Sanayi Bölgesi 1. Kısım 7. Cadde No:6 Döşemealtı-ANTALYA/TÜRKİYE
Telefon: 0(242) 221 42 50 Fax: 0(242) 221 42 55
Şube 1: Kargalı Hanbabaosb Mah. Organize San. 10. Sk. No:6 Hendek-Sakarya/TÜRKİYE
Şube 2: Oyalı OSB Mahallesi 3. Cadde No:21 Eğil-Diyarbakır/TÜRKİYE
Web : www.foxbau.com E-mail : info@foxbau.com

Application Procedure

Surface Preparation

Cement-Based Surfaces

The application surface must be sound, level and free from all kinds of dust and dirt. Areas requiring repair must be repaired at least 1 day in advance using **INNO-CRETE** series repair mortars. If the surface temperature is above +25°C, the surface should be lightly moistened.

Other Surfaces

Before application on highly absorbent substrates such as aerated concrete, gypsum plaster, chipboard, gypsum board and lime-based plaster, **FOX PRIMERA® FL220** should be diluted with water at a ratio of 1:1 and applied to the surface as a primer. Bonding should be carried out at least 8 hours after the primer application.

Mixing

The appropriate amount of water specified on the packaging is poured into a clean mixing container. While gradually adding the contents of the **FOX CERAPLUS® FX112** bag into the water, mix with a mixing drill at 400–600 rpm for approximately 3–4 minutes until a homogeneous mixture is obtained. The material must be free of lumps. After allowing the material to rest for approximately 1 minute, mix again for 1 minute to make it ready for application.

Mixing Ratios

Approximately 7.5±0.25 liters of water should be used for 25 kg/1 bag of **FOX CERAPLUS® FX112 Grey**.

Approximately 300±10 ml of water should be used for 1 kg of **FOX CERAPLUS® FX112 Grey**.

Approximately 8±0.25 liters of water should be used for 25 kg/1 bag of **FOX CERAPLUS® FX112 White**.

Approximately 320±10 ml of water should be used for 1 kg of **FOX CERAPLUS® FX112 White**.

Application

Apply a 1 mm thick layer of **FOX CERAPLUS® FX112** onto the application surface using the flat side of the trowel. Within the open time of 30 minutes, apply **FOX CERAPLUS® FX112** onto an area that can be covered within this period, combing it in a single direction with the notched side of the trowel to obtain a uniform thickness. When bonding ceramics of different thicknesses, it is recommended to apply a 1 mm thick layer of **FOX CERAPLUS® FX112** on the back of each tile in order to compensate for surface irregularities. While placing the tiles onto the surface, they should be pressed and slid into the mortar to ensure full contact with the adhesive. The application is completed by leaving the recommended joint spacing according to the appropriate tile size. **INNO-FIX** Series grout fillers should be used to fill the joint gaps. Grouting can be carried out after approximately 24 hours.

Applicability Test

For the tile application test on the adhesive, the open time must be checked. Press a finger onto the adhesive applied on the surface. If the adhesive sticks to the finger, continue bonding the ceramic and tiles. If the adhesive does not stick to the finger, the application time of the adhesive has expired. In this case, the adhesive must be scraped off the surface and a new layer of adhesive must be applied.

Cleaning of Application Tools

After application, the tools and equipment used must be cleaned immediately with water. Once **FOX CERAPLUS® FX112** has hardened, it can only be removed from the surface mechanically.

Consumption

Consumption varies between 4–6 kg/m² depending on the notch size of the trowel to be used.

Point To Consider

- During the application of **FOX CERAPLUS® FX112**, if the ambient and substrate temperature is below +5°C or above +30°C, suitable temperatures must be awaited. Application should not be carried out in extremely hot, rainy or very windy weather conditions.
- In exterior applications, the surface must be protected from sun, rain, wind and frost for the first 24 hours.
- The working and reaction times of ceramic tile adhesives are affected by air temperature, humidity and substrate temperature.

High temperatures accelerate hydration and accordingly shorten the working time. Low temperatures slow down hydration and thus extend the working time. In order for the material to complete its curing, the substrate and ambient temperature must not fall below the permitted minimum temperature.

Packaging

25 kg polyethylene reinforced kraft bag



www.foxbau.com

FOX BAU YAPI KİMYASALLARI ANONİM ŞİRKETİ

Merkez: Organize Sanayi Bölgesi 1. Kısım 7. Cadde No:6 Döşemealtı-ANTALYA/TÜRKİYE
Telefon: 0(242) 221 42 50 Fax: 0(242) 221 42 55
Şube 1: Kargalı Hanbabaosb Mah. Organize San. 10. Sk. No:6 Hendek-Sakarya/TÜRKİYE
Şube 2: Oyalı OSB Mahallesi 3. Cadde No:21 Eğil-Diyarbakır/TÜRKİYE
Web : www.foxbau.com E-mail : info@foxbau.com

Shelf Life and Storage

The product must be stored in its unopened original packaging in a dry and cool environment (between +5°C and +30°C), protected from direct sunlight and frost. When stored under the specified conditions, the shelf life is 12 months from the date of production. Opened packages must be tightly closed and consumed within 1 week. In short-term storage, a maximum of 2 pallets should be stacked and shipment should be carried out according to the first in, first out system. In long-term storage, pallets should not be stacked on top of each other.

Safety Precautions

Approaching storage and application areas with open flame is dangerous. Storage and application areas must be well ventilated. During application, work clothing, protective gloves, goggles and masks compliant with occupational health and safety regulations must be used. Avoid contact with skin and eyes during storage and application; in case of contact, wash immediately with plenty of water and soap. If swallowed, seek medical attention immediately. Food and beverages must not be brought into application areas. Store out of reach of children. For detailed information, refer to the Safety Data Sheet (Material Safety Data Sheet).

Disclaimer

The data provided in this technical document are based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. Our company cannot be held liable for results arising from uses other than the written recommendations regarding where and how the product should be used and/or from incorrect applications. For detailed information, the safety data sheet and technical data sheet should be consulted or our company representatives should be contacted.



www.foxbau.com

FOX BAU YAPI KİMYASALLARI ANONİM ŞİRKETİ

Merkez: Organize Sanayi Bölgesi 1. Kısım 7. Cadde No:6 Döşemealtı-ANTALYA/TÜRKİYE
Telefon: 0(242) 221 42 50 Fax: 0(242) 221 42 55
Şube 1: Kargalı Hanbabaosb Mah. Organize San. 10. Sk. No:6 Hendek-Sakarya/TÜRKİYE
Şube 2: Oyalı OSB Mahallesi 3. Cadde No:21 Eğil-Diyarbakır/TÜRKİYE
Web : www.foxbau.com E-mail : info@foxbau.com