

INNO-FIX

FOX CERAPOL® FX111

Tile and Ceramic Adhesive Mortar

Description

FOX CERAPOL® FX111 is a cement-based, highly stabilized tile and ceramic adhesive with reduced slipping, long working time, suitable for all climatic conditions, suitable for indoor and outdoor, horizontal and vertical use.

It meets the requirements of EN 12004-1:2017/C1TE.

C1 : Cement Based Normal Hardening Adhesive

T : Reduced Slip Properties

E : Open Hold Extended

Fields of Application

- Indoor and outdoor, vertical and horizontal applications,
- All kinds of concrete screed, plaster, screed and cement based surfaces,
- Laying of small and medium sized coating materials such as ceramics, tiles with a water absorption rate above 3%,
- It is used in coating materials with a maximum size of 45cm*45cm.

Advantages

- Easy to prepare and apply.
- Saves time and labor with its long working time.
- Does not slip in vertical applications.

Technical Properties

Material Structure		Special cement, Mineral fillers, Polymer additives
Density		1,75±0,05 kg/lit
Color		Gray, White
Adhesion Strength		
Initial pull	EN 12004-2:2017	≥0,5 N/mm ²
After immersion in water	EN 12004-2:2017	≥0,5 N/mm ²
After heat aging	EN 12004-2:2017	≥0,5 N/mm ²
After Freeze-Thaw Cycle	EN 12004-2:2017	≥0,5 N/mm ²
Application Thickness		Between 3-10 mm
Floor Temperature		+5°C/+30°C
Service Temperature		-20°C/+80°C
Maturation Time		3-5 minutes
Pot Life		~5 hours
Open Hold Time	EN 12004-2:2017	30 minutes
Slip (mm)	EN 12004-2:2017	≤0.5 mm
Grout Application Time		After 24 hours
Opening Time for Traffic		After 24 hours
Fire Reaction Class	EN 13501-1	A1

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

Application Procedure

Substrate Preparation

For Cement Based Surfaces, the application surfaces must be sound, free from all kinds of dust and dirt and leveled. Areas requiring repair should be repaired with **INNO-CRETE** series repair mortars at least 1 day before the application. If the surface temperature is above +25°C, the surface should be slightly moistened.

Mixing

The appropriate amount of water described on the package is poured into a clean mixing bowl. While the **FOX CERAPOL® FX111** bag is opened and added slowly into the water, it is mixed with a 400-600 speed mixing drill for about 3-5 minutes until it becomes homogeneous. There should be no lumps in the material. After resting the material for 3 minutes, it is mixed again for 1 minute and made ready for application.



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FOX BAU YAPI KİMYASALLARI ANONİM ŞİRKETİ

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Mixing Ratios

Approximately 7,25±0,25 lt of water should be used for 25 kg/1 bag **FOX CERAPOL® FX111** Gray.

Approximately 290±10 ml of water should be used for 1 kg **FOX CERAPOL® FX111** Gray.

Approximately 7,75±0,25 lt of water should be used for 25 kg/1 bag **FOX CERAPOL® FX111** White.

Approximately 310±10 ml of water should be used for 1 kg **FOX CERAPOL® FX111** White.

Application

A 1mm thick layer of **FOX CERAPOL® FX111** is applied to the application surface with the flat side of the trowel. **FOX CERAPOL® FX111**, is pulled in one direction with the toothed side of the trowel in such a way that a uniform thickness is obtained in the area large enough to be covered within 30 minutes, which is the open waiting time. When bonding ceramics or tiles of different thicknesses, it is recommended to apply 1mm thick **FOX CERAPOL® FX111** behind each ceramic or tile in order to cover the defects on the application surface. When applying ceramics or tiles to the surface, the coating materials are floated in the mortar to ensure full contact with the adhesive mortar. The application is completed by leaving the recommended joint spacing according to the appropriate ceramic and tile size. **INNO-FIX** series joint fillers should be used to fill the joint gaps. Grout application can be started after approximately 24 hours.

Applicability Test

For the test of ceramic applicability on the adhesive, the open time should be observed. Press a finger on the adhesive on the treated surface. If the adhesive smears on the finger, continue with the application of ceramic and tile adhesion. If the adhesive does not smear on the finger, the application time of the adhesive has expired. In this case, the adhesive should be scraped off the surface and new adhesive should be applied.

Cleaning of Tools

Tools and equipment used after application should be cleaned with water. **FOX CERAPOL® FX111** can only be mechanically cleaned from the surface after hardening.

Consumption

The consumption ranges between 4–6 kg/m², depending on the thickness of the notched trowel to be used.

Watch Points

- In **FOX CERAPOL® FX111** application, if the ambient and surface temperature is below +5°C or above +30°C, suitable temperatures should be expected. Application should not be made in extremely hot, rainy and very windy weather.
- For outdoor applications, the first 24 hours should be protected from sun, rain, wind and frost.
- Working and reaction times of ceramic adhesive mortars are affected by air temperature, humidity and ground temperatures.
- High temperatures accelerate hydration and shorten the working time accordingly. Low temperatures slow down the hydration and prolong the working time. In order for the material to complete its curing, the floor temperature and ambient temperature should not fall below the minimum permissible temperature.

Package

25 kg polyethylene reinforced kraft paper bag

Shelf Life and Storage

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

Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.



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Disclaimer

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