

INNO-FIX

FOX CERA® FX110

Tile and Ceramic Adhesive Mortar

Description

FOX CERA® FX110, is a cement based tile and ceramic adhesive with reduced slip properties, suitable for all climatic conditions, suitable for indoor and outdoor use, horizontal and vertical, with high stability.

It meets the requirements of EN 12004-1:2017/C1T.

C1 : Cement Based Normal Hardening Adhesive

T : Reduced Slip Properties

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 33 cm*33 cm.

Advantages

- Easy to prepare and apply.
- Ideal application time.
- Does not slip in vertical applications.

Technical Properties

Material Structure		Special cement, Mineral fillers, Polymer additives
Color		Gray, White
Mortar Density		1,75±0,05 g/cm ³
Adhesion Strength		
Initial adhesion strength	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		3-10 mm
Substrate application temperature		+5°C/+30°C
Service Temperature		-20°C/+80°C
Maturation Time		3-5 min
Pot Life		~5 Hours
Open Hold Time	EN 12004-2:2017	20 min
Slip (mm)	EN 12004-2:2017	≤0.5 mm
Time before foot traffic		After 24 Hours
Joint filling		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 opening the **FOX CERA® FX110** bag and adding it slowly into the water, it is mixed with a 400-600 speed mixing drill for about 2-3 minutes until it becomes homogeneous. Care should be taken to ensure that there are no lumps in the mixture. The material is allowed to rest for 3-5 minutes during the maturation period and then mixed again for 1 minute and made ready for application.



www.foxbau.com

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Mixing Ratios

Approximately 6,00±0,25 lt of water should be used for 25 kg/1 bag **FOX CERA® FX110** Gray.
Approximately 240±10 ml of water should be used for 1 kg **FOX CERA® FX110** Gray.
Approximately 6,25±0,25 lt of water should be used for 25 kg/1 bag **FOX CERA® FX110** White.
Approximately 250±10 ml of water should be used for 1 kg **FOX CERA® FX110** White.

Application

A 1 mm thick layer of **FOX CERA® FX110** is applied to the application surface with the flat side of the trowel. **FOX CERA® FX110** 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 20 minutes, which is the open waiting time. When bonding ceramics or tiles of different thicknesses, it is recommended to apply 1 mm thick **FOX CERA® FX110** 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 CERA® FX110** can only be mechanically cleaned from the surface after hardening.

Consumption

Depending on the tooth thickness of the ceramic comb to be used, consumption varies between 4-6 kg/m²

Watch Points

- In **FOX CERA® FX110** 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 data contained 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 itself. The company cannot be held liable for any consequences arising from applications or uses other than the written recommendations provided, and/or from improper use. For further details, please refer to the Safety Data Sheet and Technical Data Sheet or contact our authorized representatives.

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.

Disclaimer

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