

INNO-FIX FOX CERAPOL FX111 FLEX

Cement and Polymer Based, Flexible Adhesive Mortar with Reduced Slip, Long Working Time and High Adhesion Strength

Description

FOX CERAPOL FX111 FLEX Cement and polymer based, reduced slip feature, long working time and high adhesion performance, suitable for all climatic conditions, indoor and outdoor, horizontal and vertical, long-lasting, such as ceramic, tile, porcelain ceramic, natural stone. It is a flexible adhesive mortar for materials.

It conforms to EN 12004 -1:2017 C2TE.

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C2 : Cement Based, Additional Features Developed, Long Performance

T : Slip Feature Reduced

E : Open Waiting Time Extended

Usage Places

- Adhering materials such as tiles, ceramics, porcelain ceramics, natural stone to cement-based surfaces such as concrete, plaster, screed in indoor and outdoor horizontal and vertical applications,
- Adhering materials such as tiles, ceramics, porcelain ceramics, natural stone to gypsum-based surfaces in indoor, horizontal and vertical applications,
- Adhering materials such as tiles, ceramics, porcelain ceramics, natural stone on insulation in wet places such as bathrooms, balconies, kitchens,
- It is used for bonding ceramics on ceramics in exterior coatings of buildings, renovation and repair works.

Advantages

- It mixes only with water.
- It saves time and labor with its long working time.
- It does not slip in vertical applications.
- Provides fast and easy application.
- Provides application opportunity on gypsum surfaces.
- Resistant to freeze-thaw cycle.
- Adapts to ground stresses arising from temperature differences and is not affected

Technical Data

Structure of Material	Special Cement, Mineral Fillers, Polymer Additives
Density	1,80 kg/lit
Color	Grey, White
Initial Tensile Adhesion Strength	≥1,1 N/mm ²
Tensile Adhesion Strength After Immersion in Water	≥1,2 N/mm ²
Tensile Adhesion Strength After Heat Aging	≥1,02 N/mm ²
Tensile Adhesion Strength After Freezing-Thawing Cycle	≥1,1 N/mm ²
Joint Application	24 hours
Application Thickness	3-8 mm
Application Surface Temperature	+5°C / +35°C
Service Temperature	-20°C / +80°C
Ripening Time	3-5 min.
Usage Time	2 hours
Open Waiting Time	30 min.
Slip (mm)	None
Joint Application	24 hours later
Walkable Time	24 hours later
Reaction Class to the Fire	A1

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



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Application Procedure Surface preparation

Cement Based Surfaces

The surfaces to be applied must be clean, 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 one 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.

Mixture

The appropriate amount of water described on the packaging is poured into a clean mixing bowl. While **FOX CERAPOL FX111 FLEX** bag is opened and slowly added into the water, it is mixed for 3-4 minutes until it becomes homogeneous with a 400 - 600 speed mixing drill. 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 Ratios

Approximately 7.00-7.50 liters of water should be used for 25 kg/1 bag of **FOX CERAPOL FX111 FLEX Gray**.
Approximately 7.50-8.00 liters of water should be used for 25 kg/1 bag of **FOX CERAPOL FX111 FLEX White**.

Application

A 1mm thick **FOX CERAPOL FX111 FLEX** layer is applied to the application surface with the flat side of the trowel. **FOX CERAPOL FX111 FLEX** 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. It is recommended to apply 1mm thick **FOX CERAPOL FX111 FLEX** to the back of each ceramic in order to cover the defects on the application surface when bonding ceramics of different thicknesses. When applying the ceramics 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 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.

Cleaning of the Tools

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

Coverage

Depending on the tooth thickness of the ceramic comb to be used, the coverage varies between 3.5-6 kg/m².

Watch Points

- In **FOX CERAPOL FX111 FLEX** 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.

Package

25 kg polyethylene reinforced kraft bag

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.



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 the shipment should be made with a first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.

Safety precautions

It is dangerous to approach storage and application areas with fire. Storage and application areas should be ventilated.

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 Technical Data Sheet should be consulted.

Disclaimer

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