

INNO-FIX FOX CERAFLEX FX114

Cement and Polymer Dispersion Based, Flexible, Slipping Feature Reduced, Long Working Time, High Performance, Tiles, Granite, Marble, Natural Stone, Press Brick, Glass Mosaic Adhesive

Description

FOX CERAFLEX FX114 is a cement and polymer based, long life, slipping feature reduced, long working time, high adhesion performance, and flexible adhesive mortar suitable for all climatic conditions and used for materials such as ceramics, tiles, porcelain ceramics, and natural stones. It can be used indoors and outdoors, horizontally and vertically.

**In compliance with TS EN 12004 -1:2017 C2TES1 standards.
Ministry of Public Works and Settlement Item No: 04.01301-04.01304**

**C2 : Cement Based, Additional Features Improved, High Performance
T : Slip Feature Reduced
E : Open Waiting Time Extended
S1 : Flexible**

Fields of Application

- For bonding of materials such as tiles, ceramics, porcelain ceramics, natural stones on cement-based surfaces such as concrete, plaster, screed in indoor and outdoor applications, horizontal and vertical applications
- For bonding of materials such as tiles, ceramics, porcelain ceramics, natural stones on insulation in wet places such as bathrooms, balconies, kitchens
- In bonding processes in swimming pool, Turkish bath, water tank, bathroom, industrial floor, cold storage
- Used for ceramic adhesion processes on ceramics on renovation and repair works in exterior facades of buildings.
- Used in places with heavy pedestrian and load traffic.

Advantages

- Only mixed with water.
- Saves time and labor with its long working time.
- Does not slip in vertical applications.
- Provides quick and easy application.
- Has high adhesion strength.
- Flexible, not affected by vibrations.
- Resistant to freeze-thaw cycle.
- Does not shrink.
- Adapts to ground stresses arising from temperature differences and is not affected from that.

Technical Data

Structure of Material	Special Cement, Mineral Filler, Polymer Additive
Density	1,75 kg/lt
Color	Gray, white
Bond Strength 28 days	$\geq 1,0 \text{ N/mm}^2$
Flexibility	$\geq 2,5 \text{ mm S1 flexible}$
Application Thickness	3-8 mm
Application Surface Temperature	+5°C / +35°C
Service Temperature	-40°C / +80°C
Initial Curing Time	3-5 minutes
Working Time	2 hours
Open Waiting Time	30 minutes
Slippage (mm)	None
Wettability	Min % 90
Grouting Application	24 hours later
Time of Walkable on it	24 hours later
Fire Reaction Class	A1

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



Application Procedure

Preparation of the Substrate

Cement Based Substrates

The surfaces to be applied must be sound and free from dust and dirt of any kind and must be in balance. Areas requiring repairs 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 Substrates

FOX PRIMERA® FL220 is applied to surface by diluted with 1/1 of water as a primer before applying on highly absorbent lime plaster surfaces such as gas concrete, gypsum plaster, chipboard, gypsum board. Adhesion application is done at least 8 hours after primer application.

Wood Chip Based Substrates (OSB and Chipboards)

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

Mixing

The appropriate amount of water described on the package is poured into a clean mixing container **FOX CERAFLEX FX114** bag is opened and added slowly into the water. It is mixed for about 3-4 minutes until it is homogenous with 400 - 600 rpm mixing drill. There should be no lumps in the material. After the material is rested for about 3 minutes, it is mixed again for 1 minute and made ready for application.

Mixing Rates

Approximately 7,75±0,25 lt of water should be used for 25 kg/1 bag **FOX CERAFLEX FX114 Gray**.

Approximately 8,25±0,25 lt of water should be used for 25 kg/1 bag **FOX CERAFLEX FX114 White**.

Application

The **FOX CERAFLEX FX114** layer is applied to the application surface with the flat side of the fleece with a thickness of 1 mm. **FOX CERAFLEX FX114** is pulled in one direction to obtain a uniform thickness with the gear side of the trowel to the large area which can be covered in 30 minutes with open waiting time. It is recommended to apply **FOX CERAFLEX FX114** at a thickness of 1 mm behind each ceramic or granite in order to close the gaps in the application surface when gluing ceramic or granites with different thicknesses. When applying ceramics or granites to the surface, the coating materials are floated in the mortar to ensure complete contact of the adhesive mortar. Application is completed with recommended joint spacing according to suitable ceramic and granite sizes. **FOX INNO-FIX** Series joint fillings should be used to fill the removed joint spacing. Joint application can be completed after about 24 hours.

Applicability Test

Open waiting time should be checked for ceramic applicability test on the adhesive. The finger is pressed on the adhesive on the applied surface. If the adhesive spreads on the finger, the application of adhering the ceramics and tiles is continued. If the adhesive does not spread on the finger, the application time of the adhesive has passed. In this case, the adhesive should be scraped off the surface and new adhesive should be applied.

Cleaning of the Tools

Tools and equipment used after the application should be cleaned with water. **FOX CERAFLEX FX114** can only be mechanically cleaned from the surface after hardening.

Coverage

Coverage varies on between 3.5 - 6 kg/m² according to the tooth thickness of the ceramic comb to be used

Watch Points

- In **FOX CERAFLEX FX114** 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.
- In outdoor applications, the application area should be protected from sun, rain, wind and frost for the first 24 hours.
- Working and reaction times of 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, and thus extend the 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 allowed value.



Package

25 kg polythene craft bag

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, shelf life is 12 months from the date of production. Opened packages should be consumed within 1 week by closing their mouths.

Storage

Should be stored in its original package, in a cool and dry place protected from frost. In short-term storage, maximum 3 pallets should be placed on top of each other and shipment should be made with the 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 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, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.

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

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