

# INNO- CRETE FOX INJECTION EP FC420

## Epoxy Based Injection Material

### Description

**FOX INJECTION EP FC420** is an epoxy based, two component, low viscosity, solvent free injection material developed to be injected into concrete cracks.

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**In compliance with EN1504-5 standard.**

### Fields of Application

- Repairing of the cracks,
- Repairing and strengthening of reinforced concrete, natural stone, stone structures,
- In filling the gaps between reinforced concrete and steel windings made for the purpose of building reinforcement,
- Used for the increase of old new concrete screed adherence.

### Advantages

- Has high chemical and mechanical resistance.
- Penetrates deep into capillary cracks and has high adherence.
- Provides high adherence to reinforced concrete.
- Can be applied even at low pressures, it has low viscosity.
- Does not contain solvent.

### Technical Data

Brightness and Color	Transparent, Yellowish
Density	1,10 kg/lt
Compression Strength	<b>TS EN 12190 7 days</b> >65 N/mm <sup>2</sup>
Bending Strength	<b>TS EN 12190 7 days</b> >25 N/mm <sup>2</sup>
Bond Strength	<b>to concrete</b> >2,0 N/mm <sup>2</sup>
Total Solid Material Percentage	100%
Dilution	Not dilution
Application Surface Temperature	+5°C / +30°C
Flash Point	>+62 °C
Working Time	25 minutes
Fully Cured	7 days



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 Substrate

The plaster on the surface should be removed so that the entire crack plane can be determined. The concrete surface to be treated should be cleaned from dust, oil and construction waste and damaged and loose concrete parts on the surface should be cleaned. If there is a water leak on the surface, it should be drained or closed with **FOX PLUG FC340**. Deciding on the width, depth and ambient conditions of the crack, holes must be drilled on both sides of the crack plane with appropriate intervals (~ 20 - 25 cm). These holes should be deep enough to pierce the crack plane and pass to the other side and be opened with an angle of approximately 45 ° with the crack plane. Dust and free particles should be removed by injecting air in the holes opened and the packers should be fixed by squeezing and driving. After all the packers are installed, the sealing should be provided by covering the perimeter of the packer and the crack with **FOX EPOMORTAR FC510**. According to the ambient and weather conditions, the injection process should be started at the earliest 12 hours later using the appropriate injection apparatus.



### Mixing

Before starting the mixture, make sure that the material temperature is between +15°C and +25°C. The entire **FOX INJECTION EP FC420** component B should be poured into A component and make sure that there is no material left inside the component B. The mixture should be mixed with an electric mixer of approximately 300 cycles and suitable mixing tip, making sure that there is no unmixed material on the edges and base of the packaging, until a homogeneous mixture is obtained for at least 3 minutes.

### Application

It should be understood that when the **FOX INJECTION EP FC420** begins to come out of the upper packer, the air inside the crack is discharged and the injection material is filled. After the injection hose is removed from the packer it is in and attached to the upper packer, the process similarly should be continued until the upper packer. When the material comes out of the upper packer, the application of the **FOX INJECTION EP FC420** should be completed, assuming that the crack plane is filled with the injection material. At least 24 hours after application of **FOX INJECTION EP FC420**, the ends of the packer can be cut for other applications to be applied to be surface.

### Coverage

Variable

### Watch Points

- Ambient and surface temperature should not be below +10°C and above +35°C during application.
- Working and reaction times of resin based systems are affected by the ambient, ground temperature and relative humidity in the air. High temperatures accelerate hydration and the working time is reduced accordingly. Low temperatures slow hydration and prolonged working time.
- In order for the material to complete its curing, the ground temperature and ambient temperature to be applied must not fall below the minimum allowed value.
- Solvent etc. should not added into the mixture prepared during the application.
- Mixing must be done with the help of suitable mechanical mixers. Hand mixing should not be done.

### Package

3,75 kg Set

Component A; 2,50 kg tin bucket

Component B; 1,25 kg tin bucket

### 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.

### 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.



### Disclaimer

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