

## INNO- CRETE

# FOX INJECTION PUR GEL FC425

## Polyurethane Based, High Performance, Two Component Permanent Injection Resin

### Description

**FOX INJECTION PUR GEL FC425** is a low viscosity, elastic and solvent-free polyurethane injection resin. It creates a smooth, water-impermeable layer that is in elastic and flexible structure without the need for contact with water.

### Fields of Application

- Due to its certain amount of flexibility, **FOX INJECTION PUR GEL FC425** is used for permanent waterproofing by meeting the limited movement of cracks and joints that is in concrete, brick, masonry and natural stone surfaces in dry, damp or water containing.
- Before using in cracks containing water in hydrostatic pressure,
- Use **FOX INJECTION PUR FC410** or **FOX INJECTION PUR FLEXIBLE FC415** products.

### Advantages

- It is permanently elastic and can meet limited movements.
- Provides permanent waterproofing

### Technical Data

Color	Transparent - Yellowish
Density	1,15 gr/m <sup>3</sup>
Gelling time	1 day
Fully Cured Time	7 days
Shore A	50

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. 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 (~15 - 90 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. (Reference value: thickness of the structure / 2) 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**. In dry environment, water must first be squeezed into the packers, this will allow the water in the crack to react with the resin. 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

**FOX INJECTION PUR GEL FC425** Component A and B in a 1:1 ratio are mixed with a suitable mixer until a homogeneous structure is obtained. Before starting the mixture, make sure that the material temperature is between +10°C and +25°C.

#### Application

The prepared **FOX INJECTION PUR GEL FC425** mixture should be put into the single component injection pump chamber and injection should be started from the lowest level packer with a suitable pressure between 14 and 200 bar according to crack size, reinforced concrete thickness and general conditions. It should be understood that when the **FOX INJECTION PUR GEL FC425** starts coming out of the upper packer, the air inside the crack is discharged and the injection material is filled in its place. 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 PUR GEL FC425** should be completed, assuming that the crack plane is filled with the injection material.



## 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

### 10 kg Set

**FOX INJECTION PUR GEL FC425;** Component A 5,00 kg plastic can

**FOX INJECTION PUR GEL FC425;** Component B 5,00 kg plastic can

## Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, shelf life is 6 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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