

## **TECHNICAL DATA SHEET**

TEKINJECT EPOXY 300 is an epoxy injection system for structural repair of cracks in concrete or masonry structures.

### **Applications**

TEKINJECT EPOXY 300 can be used for structural repair of cracks and this in a variable application field:

- Structural injection of cracks in concrete and masonry structures (Slabs, tunnels, beams, pillars,...)
- Transferring mechanical strength by epoxy-injection
- Anchoring bars

## **Properties**

- TEKINJECT EPOXY 300 is a 2-component solvent free system containing pure epoxy and hardener
- Due to the low viscosity a high penetration can be reached.
- High adhesion properties to concrete
- Very good mechanical properties
- Can be used in wet or moist structures.



## **Technical Data**

#### Typical values:

#### **TEKINJECT EPOXY 300:**

Pot life (23°C)	> 40 minutes
Mixing ratio	100 A-component/ 50 B-component
Density (23°C) EN ISO 1183	± 1,10 g/cm <sup>3</sup>
Viscosity (25°C)	± 300 mPa.s
Storage temperature	Between 10 °C and 30 °C

### **Processing**

#### 1. Preparation

For the use of a single component pump a mixture needs to be made by adding the B-component to the A-component in a ratio 1 to 2. This mixture needs to be mixed for minimum 3 minutes.

After this the mixture can be injected into the cracks as long as needed to be sure that the crack is filled with the TEKINJECT EPOXY 300 system. Observe the pot life during work.

Be aware that the temperature of the structure and the ambient temperature will have an influence on the pot life. The higher the temperature, the shorter the pot life.

#### 2. Substrate preparation

Check the quality of the substrate, injection means increased pressure on the substrate, so the substrate needs to be of sufficient strength.

Determine the packers according to the injection technique, substrate dimensions and type of pump. According to the selected packer and injection technique, the holes in the substrate need to be drilled. Tighten the packers well to make sure the injected pressure is distributed.

The distance and pattern of the packers/bore holes depend on the substrate structure and the injection technique. Please consult your TEKINJECT contact person for more information or the specific application manuals of the injection techniques.



#### 3. Injection

The TEKINJECT EPOXY 300 mixture can be injected into the cracks as long as needed to be sure that the crack is filled. Observe the pot life during work. Be aware that the temperature of the structure and the ambient temperature will have an influence on the pot life. The higher the temperature, the shorter the pot life.

The selected injection pressure is as low as possible. Start at the lowest point and increase until you see the resin flowing. Injection with low pressure ensures a deeper penetration of the resin and complete sealing of the structure.

Start injecting at the lowest point in case of a vertical application and at the widest point for a horizontal application. Open the valve of the gun, hold the pressure, and inject until the resin appears in the next packer. Stop pumping and proceed to the next packers. To make sure the material is penetrated in the full structure, opening and closing the valve and letting the material flow, can be advised. Continue the process until the whole structure is sealed.

#### 4. Cleaning

If the components are liquid, the pump can be cleaned with TEKINJECT PU CLEANER. Hence, we recommend, every time there is a stop of more than 15 minutes, and at the end of the injection works to flush the pumps with TEKINJECT PU CLEANER, which is a cleaner with high flash point.

Hardened material needs to be cleaned with PU dissolver. Packers can be removed, and the boreholes can be sealed with a fast-setting mortar.

### **Packaging**

TEKINJECT EPOXY 300: IBC

its products without notice. This sheet replaces all previous ones.

200 l Drum

### **Shelf life**

12 months after production date in the original, unopened and undamaged packaging, according to the storage instructions of each component (see technical data of this sheet). If the following recommendations are not followed, the shelf life of the material cannot be guaranteed.



# **Precautions and Safety Recommendations**

- Wear safety and protection materials when handling this material (glasses, gloves, protective clothing).
- In the event of contact with the eyes: rinse thoroughly with clean water and consult a
- In the event of skin contact: rinse with water thoroughly.
- Mix residues of the TEKINJECT EPOXY 300 with sand and dispose of in accordance with local regulations.
- Consult the Material Data Safety Sheet for more information on health and safety regulations.

### **Company Details**

**TEKINJECT BV** Kruisblok 6 2320 HOOGSTRATEN Belgium

www.tekinject.com info@tekinject.com

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