

CIKOinject PUR 2 ELV



Two component, solvent free, low viscosity (LV) polyurethane injection system for the elastic sealing of cracks in concrete structures. Can be injected with a one-component pump. CIKOinject PUR 2 ELV is a CE certified system and is subject to: EN 1504-5 - Principle 1 - Protection against ingress and waterproofing; method 1.4 - the filling of cracks.

HOW DOES CIKOinject PUR 2 ELV WORK?

CIKOinject PUR 2 ELV is used to permanently seal dry or wet cracks or joints in concrete, stone and masonry. This system is used in construction and civil engineering both for new structures or repair purposes. CIKOinject PUR 2 ELV is a two component polyurethane system, consisting of a resin component and a special type of isocyanate (MDI based).

ADVANTAGES

This system is ideally suitable for the elastic sealing of cracks in concrete structures as well as areas suffering from water leakage problems. The use of CIKOinject PUR 2 ELV is depending on the amount of water expected. In case the crack is dry or moist CIKOinject PUR 2 ELV can be used directly to seal the crack. If an important leakage of water has to be stopped, the system could be used in combination with the CIKOinject PUR 1, which will first stop the water and/or react the water away, after which the injection of CIKOinject PUR 2 ELV can be carried out.

APPLICATION PRESCRIPTIONS

Although CIKOinject PUR 2 ELV is a two component system, it can be used as a one component system. CIKOinject PUR 2 ELV as a one component system:

- **Step 1:** Add the required amount of component A to the B component.
- **Step 2:** Mix thoroughly until a homogenous mixture has been obtained, which will be the case after about 2 minutes.
- **Step 3:** The mix can be pumped by means of a single component injection pump. Keep in mind that the processing time of the system is about 45 minutes at 20°C.
- After the injection the pump should be cleaned with CIKOsol.
- To prevent condensation on the liquids at the start of work, the temperature of the components should be at least as high as the ambient temperature.
- All opened drums should be purged with dry nitrogen and capped when not in use. It is preferred to use an opened can as soon as possible.
- Pumps should be cleaned with CIKOsol, a cleaning product specially developed for cleaning of polyurethane injection pumps.
- Mixing ratio: 1:1 (100 parts by volume of component A, 100 parts by volume of component B).

TECHNICAL DATA

Mechanical and physical properties of the ends			
Property	According to	Unit	Value
Tensile strength	ASTM D 638	N/mm ²	2.0 - 2.1
Elongation at break	ASTM D 638	%	60 - 80
Shore hardness	ASTM D 2240	N/mm ²	60 - 80 A 20 - 30 D
Density comp. A		g/cm ³	ca 1,02
Density comp. B		g/cm ³	ca 1,09

PACKAGING

Standard packaging:

- Sets of 10 kg
Component A: 5 kg
Component B: 5 kg
- Sets of 50 kg
Component A: 25 kg
Component B: 25 kg

Other type of packaging available on request.

STORAGE

To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not exceeding 30°C or not lower than 10°C. The maximum shelf life time is one year. All partially used drums should be covered with nitrogen and re-sealed to prevent the ingress of moisture.

SAFETY AND HEALTH PRECAUTIONS

Do not breathe dust/fume/gas/mist/vapours/spray.
In case of inadequate ventilation wear respiratory protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.
For more information, consult the safety data sheet.

