

# EUCOINJECT PU FLEX

## 1 COMPONENT POLYURETHANE INJECTION RESIN, FLEXIBLE.

### FIELD OF APPLICATION

EUCOINJECT PU FLEX is a 1 component, polyurethane injection resin for sealing water leaks. In contact with water, the resin will react quickly. The foam that is created has a large expansion volume. It will foam compactly in the cracks of joints and will seal them.

- Sealing of water leaks.
- Post injection after EUCOINJECT PU HARD
- Basement, foundations, silt walls, sheet piling, secant pile walls, lift pits, car parks, tunnels, ...
- Sealing of water leaks in concrete, masonry, sewer systems, manholes, ... where movement or settlements are expected.
- Screen injections behind tunnel walls, concrete, masonry, sewage.
- Injection of defective membranes and tunnel liners.
- Injection of preventively installed injection hoses, such as EUCOPREV TUBE & EUCOPREV TUBE PRO.
- Etc...

### BENEFITS & FEATURES

- The cured polyurethane resin is harmless to the environment.
- Resistant to micro-organisms.
- 1 component system.
- The cured polyurethane resin is flexible.
- High compressive strength
- Good chemical resistance
- Hydrophobic - water reactive
- Phthalate free
- With closed cells
- Low viscous

### APPLICATION

#### Application conditions

Avoid injections at too low temperatures. If necessary contact EUCOCHEM BV for this.

#### Tools & complementary products

- Power drill and drills of suitable diameter and length.
- Packers of suitable diameter and length.
- Injection pump.
- EUCOPROOF CEM PLUG
- EUCOPROOF MORTAR THIX
- EUCOSOLV PUMP CLEAN

#### Preparations

Injection of seams and joints:

Check how the seams and joints are positioned to avoid drilling blind holes. Blind holes are drilled holes that have not been drilled through the seam or joint.

Leaking cracks:

Drill injection holes alternately left and right, or above and below the crack and at a 45° angle towards the crack. This is to ensure that the drill holes go through the crack.

The drill holes must cross the crack, seam, joint halfway through the thickness of the concrete wall or floor. Blow the dust out of the injection hole. Place a packer of the correct diameter in the drill holes. If necessary, the packers can be fixed with EUCOPROOF CEM PLUG quick cement.

For special applications it is advisable to consult your EUCOCHEM BV representative.

#### Voorbereiding van het product en het materieel

The injection can be performed with a hand pump, pneumatic or electric pump depending on the application. Always use a separate pump for injecting water and resin. Check that the pumps are working properly. Before starting the injection, the resin pump must be flushed with EUCOSOLV PUMP CLEAN; there should be no water in the resin pump to prevent clogging of the pump.

#### Application of the product

A pre-injection with water in the crack or seam is possible. This ensures that the injection resin will respond better. Always use a separate water pump for injecting the water. This is to prevent clogging of the resin pump. Pour the prepared mixture (resin with catalyst) into the reservoir of the resin pump. Connect the pump to the first packer. Start the injection. When injecting vertical bilge seams or cracks, start at the bottom at the lowest packer. Do not use too much pressure when injecting. The correct pressure is the pressure required for the resin to flow into the crack or bilge seam. Stop the injection from the moment unreacted resin emerges from the crack or the seam. Then inject the next packer. Etc... If necessary, the packers can be re-injected with resin. Post-injection with water is possible after injecting the last packer in order to make the remaining resin react. Do this with the water pump, never with the resin pump. This is to prevent clogging of the resin pump.

#### Finishing

After the injection works, remove the packers and fill the borehole with EUCOPROOF CEM PLUG quick cement, with EUCOPROOF MORTAR THIX or another suitable material.

#### Cleaning of the tools

After injection works, rinse and clean the resin pump with EUCOSOLV PUMP CLEAN. If the pump will not be used in the coming days, it can be filled with oil until the next injection. Never use water to clean or fill the pump during storage.

### MAINTENANCE AFTER APPLICATION

Does not apply.

### TECHNICAL DATA

#### Consumption

Consumption is different in every situation and must be estimated on site and will be influenced by the amount of water, thickness of the concrete wall of floor, presence of cavities in and around the concrete, size of the cavities and voids to be filled, etc...

## Technical data

Consistency and colour: Liquid, reddish transparent

Odour: Typical

Density (at 23°C): approx. 1,1 g/cm<sup>3</sup>

Viscosity (at 23°C): approx. 300 mPas

Application temperature, substrate temp.: 5 - 40°C

Reaction times:

(at 21°C)

Start foam formation: approx. 20 seconds

End foam formation: approx. 2 minutes.

Volumetric expansion: approx. 29V.

## Chemical resistances

The cured polyurethane resin has good chemical resistance, is harmless to the environment and resistant to micro-organisms.

## Additional documentation & referrals

Always consult all technical data sheets and material safety data sheets of the products to be used. Always work with clean tools in good condition.

## APPEARANCE - COMPOSITION - PACKAGING

EUCOINJECT PU FLEX is available as follows:

10 kg packaging

21 kg packaging

EUCOINJECT PU FLEX is moisture sensitive, storage takes place in a dry room between +15°C and +25°C. Shelf life resin:

12 months after production date, in the original packaging. Free from frost, heat and direct sunlight.

Opened packages must be processed as quickly as possible.

## ADDITIONAL COMMENTS

The area to be injected must always contain water prior to injection. This is because EUCOINJECT PU FLEX is a water-reactive resin. For special applications it is advisable to consult your EUCCHEM BV representative.

## SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [op www.eucochem.com](http://www.eucochem.com). When in doubt, contact our technical service.

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