

EUCOINJECT PU LV

1 COMPONENT POLYURETHANE INJECTION RESIN, LOW VISCOUS.

FIELD OF APPLICATION

EUCOINJECT PU LV is a 1 component, polyurethane injection resin for sealing water leaks in small fissures, joints and other applications.. 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 in small fissures, joints and other applications.
- Basement, foundations, floors, tube penetrations, inspection shafts, etc...
- Injection of gravel nests in concrete.
- Etc...

BENEFITS & FEATURES

- The cured polyurethane resin is harmless to the environment.
- Resistant to micro-organisms.
- 1 component system.
- Different reaction times possible (with catalyst: EUCOINJECT PU LV CAT)
- The cured polyurethane resin is rather hard elastic
- High compressive strength
- Good chemical resistance
- Hydrophobic - water reactive
- Phthalate free
- With closed cells
- Low viscous

APPLICATION

Application conditions

Application temperature +5 - 35°C

Tools & complementary products

- Power drill and drills of suitable diameter and length.
- Packers of suitable diameter and length.
- Injection pump.
- EUCOINJECT PU LV CAT
- 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.

Preparation of the product and the equipment

Shake the EUCOINJECT PU LV CAT before use. Add the desired amount of catalyst to the EUCOINJECT PU LV injection resin.

Ratio: 10 component resin: 1 weight component CATALYST

Only make an amount of resin with accelerator that can be processed in one working day. Mix the accelerator well with the injection resin and then protect the mixture from moisture and rain to prevent a premature reaction.

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.

It will be influenced by the amount of water, thickness of the concrete wall or floor, presence of voids in and around the concrete, size of the voids and gaps to be filled, etc...

Technical data

EUCOINJECT PU LV

Consistency and colour: liquid, brown

Odour: Typical

Density: approx. 1,15 g/cm³

Viscosity (at 25°C): approx. 135 mPas

EUCOINJECT PU LV CAT

Consistency: liquid

Odour: Typical

Application temperature: 5 - 35 ° C

Reaction times (Resin/Catalyst = 10 : 1): approx. 11 sec.

Volume expansion: 30V

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 LV:

10 kg packaging

EUCOINJECT PU LV CAT:

1 kg packaging

EUCOINJECT PU LV & CAT:

The products are sensitive to frost, storage takes place in a dry room between +15°C +25°C, Free from frost, heat and direct sunlight.

Shelf life resin: 12 months after production date, in the original packaging.

Shelf life accelerator: 12 months after production date, in the original packaging.

Opened packages must be used as quickly as possible.

ADDITIONAL COMMENTS

The area to be injected must always contain water prior to injection. This is because EUCOINJECT PU LV is a water-reactive resin. For special applications it is advisable to consult your EUCOCHEM 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://op.www.eucochem.com). When in doubt, contact our technical service.

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