

Epoxy inject

Technical Manual

Rigid moisture resistant epoxy injection resin

EpoxPower is intended for making fillings and reinforcing seals in materials such as concrete and reinforced concrete masses.

Properties

- ❖ Low viscosity
- ❖ Good tolerance to moisture in the substrate, no foaming of the mass
- ❖ Excellent wettability and penetration into porous substrates
- ❖ Good chemical, thermal and mechanical resistances



Areas of application



- ❖ For permanent, rigid waterproofing of dry cracks in walls, floors, concrete structures, underground structures
- ❖ Stabilizing \ sealing \ reinforcing injections for walls and other building structures

Product specifications

	Component A	Component B	Mixture
Colour	Colorless	Light yellow	Light yellow
Viscosity (20 °C)	750 mPas	25 mPas	350 mPas
Density (20 °C)	1,15 g/cm ³	0,95 g/cm ³	1,10 g/cm ³
Compressive strength			min. 50 MPa
Tear strength			min. 15 MPa
Stretch to break	ok. 3,5 %		

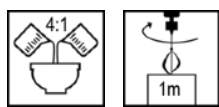
Optional additional products

- ❖ ResinBau CrackOn.5 - mortar closing the front of the crack
- ❖ Hammpack® PI-Cleaner - for cleaning injection pumps
- ❖ 1K injection pump
- ❖ Hammpack® injection packers

Preparatory work for injections

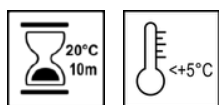
- ❖ This product is intended for professional users only
- ❖ Before starting the injection, an analysis of the condition of the facility should be carried out
- ❖ The substrate must be stable and compact, it must not contain loose elements or substances that reduce adhesion, such as fats, oils, etc.
- ❖ Drill the holes correctly, depending on the work you are doing
- ❖ Scratches or loose fragments of joints are suggested to be chiseled / notched and cleaned of construction dust, so that it can be closed with putty (ResinBau CrackOn.5)
- ❖ The holes should be blown out with compressed air
- ❖ Packers must be installed

Resin preparation



- ❖ Components A + B (set 100:25) Pour component B into component A. Mix thoroughly with a low-speed mixer. Remember! Elevated temperature significantly speeds up the reaction time
- ❖ Mix such amounts to be able to process them quickly Fresh resin is much less viscous, which results in better distribution in the structure (resin fills the crack more easily / saturates the structure)

Method of application



- ❖ Material, ambient and substrate temperature should be above 5°C
- ❖ Processing time at 20°C is 6 hours

Temperature [° C]	10 °C	15 °C	20 °C	25 °C
Processing time [min.]	25 min.	15 min.	10 min.	5 min.
Curing time [min.]	12h	8h	6h	4h

- ❖ Prepare the pump for application according to the manufacturer's recommendations
- ❖ The pressure under which the resin will be fed depends on the structure and size of the crack
- ❖ Start application at the lowest point of the crack
- ❖ Continue application until resin flows from adjacent packer (crack face on each side should be closed)
- ❖ This procedure is necessary in order to achieve an even distribution of the material
- ❖ Stop pumping, disconnect the hose from the packer nipple and move on to the next one
- ❖ Continue the procedure until the crack is completely filled

Cleaning after finished work

- ❖ Clean the pump and equipment with Hamm-pack® PI-CLEANER whenever work stops for more than 10 minutes and after application.
- ❖ When cleaning, pay attention to maintaining appropriate safety conditions.
- ❖ When the cleaning agent comes out of the injection hose, rinse it with the appropriate amount of Hamm-pack® PI-SAVER maintenance agent.

Storage Durability

- ❖ In a dry place at 5 °C - 30 °C
- ❖ Shelf life 12 months from the date of production in the original, unopened packaging. Once opened, the life of the product decreases very quickly.

Safety

- ❖ In a dry place at 5 °C - 30 °C
- ❖ Wear safety glasses, gloves and protective clothing. Avoid contact with skin and eyes.
- ❖ In case of eye contact: rinse thoroughly with clean water and consult a doctor.
- ❖ In case of skin contact: rinse thoroughly with water.
- ❖ Mix EpoxPower residues with sand and dispose of mixed material in accordance with local regulations.
- ❖ All other information available in the product data sheet.

