

Konudur Robopress 07

Rigid sealing injection resin for rehabilitation of sewers with robotics

Product Properties

- High reactive polyurethane-based duromer resin with low-viscosity
- Viscoplastic when cured
- Fulfills hygienic requirements to repair systems according to UBA-guideline
- Fulfills requirements of the DIBt-bulletin "Rating of effects of construction products on soil and ground water"
- Component of the DIBt-approval Z-42.3-472 (ProKasro 2K PUR Verpressung)

Areas of Application

- Rigid sealing and filling of cracks, sleeves and sockets in sewers
- Sealing of leakages in pipe sleeves, sockets and cracks
- Rehabilitation of sockets and sleeves with robotics
- REACH-assessed exposure scenarios: long-term water-contact, periodical inhalation, application

Application

Preparation

Before injection, the structure, respectively the leakages have to be inspected according to technical standards and regulations, and an injection proposal is to be prepared.

Substrate Preparation

The substrate must be clean and free from loose matter, dust, oil, grease, cement slurries and other materials that would prevent a good bond. The adhesive tensile strengths of the substrate surface must conform to the relevant technical regulations. The substrate can be dry or damp. Gaps and cracks should be expanded using a moulding cutter to approve the injection.

Mixing

Konudur Robopress 07 is made up of a base (component A) and a hardener (component B). The components are mixed in the mixing-head of a two-component injection-pump, using a suitable static mixer.

Injection

Konudur Robopress 07 is to be applied using an adequate two-component injection pump providing a sufficient pressure and pump capacity (e.g. 2-K injection system of ProKasro Mechatronik GmbH). If Konudur Robopress 07 gets contact or is mixed with water, it turns into hard-flexible, closed-cell foam. This characteristic can be restricted by

adding Konudur Additiv RP to Konudur Robopress 07 component A in a ratio (p.b.w.) of 100 : 6 (comp. A : additive). Stir Konudur Additiv RP thoroughly prior to usage.

Work with Konudur Robopress 07 must be stopped if the temperature of the structure drops below + 6 °C.

Stripping attitude

The layer thickness of applied material affects the reaction characteristic. This may cause slightly alternating reaction times (especially in case of thin layers).

Cleaning of Equipment

In case of an interval longer than the resin's pot life, the mixing head of the 2-component injection-pump should be thoroughly flushed with MC-Verdünnung PU (MC-Thinner PU). Partially or completely cured material can only be removed mechanically.

General Information

Opened and once air-contacted packs must be used within 24 h.

Safety Advice

Observe the hazard notices and safety advice on the labels and safety data sheets.
GISCODE: PU 40



Technical Data for Konudur Robopress 07

| Characteristic | Unit | Value* | Comments |
|--|--------|---|--|
| Mixing ratio | p.b.v. | 1 : 1 | component A : component B |
| Specific gravity | kg/l | 1.03 1.23 1.18 1.25 | component A component B mixture Konudur Additiv RP |
| Application conditions | °C | + 6 to + 30 + 10 to + 40 | air and substrate temperature material temperature |
| Viscosity | mPa·s | approx. 230 approx. 230 approx. 230 | component A component B mixture |
| Pot life (100 g mix) | s | approx. 60 | |
| Compressive strength | MPa | ≥ 70 | DIN EN ISO 604 |
| Bending tensile strength | MPa | ≥ 70 | DIN EN ISO 178 |
| Shore-A-Hardness | | approx. 90 | DIN 53505 |
| Slant shear strength | MPa | approx. 13.3 | BS 6317 part 4 |
| Volume expansion in contact with water | | 1 - 10 times | without addition of Konudur Additiv RP, depending on back pressure |

Product Characteristics for Konudur Robopress 07

| | | | |
|-------------------|--|---|--|
| Colour | brown | | |
| Form of Delivery | Konudur Robopress 07: Konudur Additiv RP: | canister at 20 l (per component) bucket at 1.25 kg | |
| Equipment Cleaner | MC-Verdünnung PU (MC-Thinner PU) Water or water-based cleaning agents must not be used under any circumstances! | | |
| Storage | If tightly sealed, the original packs can be stored for at least one year at temperatures between + 10 °C and + 25 °C in dry conditions. The same requirements apply to transport. | | |
| Pack Disposal | Make sure the pack is completely empty. | | |

* Unless otherwise stated, all technical data were determined at + 23 °C and 50 % relative air humidity.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 10/16. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.