

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"
- General technical approval

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 ADVICE

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. MC-I 700). 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.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	parts by volume	1 : 1	comp. A : comp. B
Density	kg/l	approx. 1.03 approx. 1.23 approx. 1.18	component A component B mixture
Working time	seconds	approx. 60	related to 100 g
Application conditions	°C	≥ 6 ≤ 30 ≥ 10 ≤ 40	air and substrate temperatures material temperature
Viscosity	mPa·s	approx. 230 approx. 230 approx. 230	component A component B mixture
Slant shear strength	N/mm ²	approx. 13.3	BS 6317-4
Shore A hardness		approx. 90	DIN 53505
Volume change (with water)	%	1 - 10	without addition of Konudur Additive RP
Compressive strength	N/mm ²	≥ 70	EN ISO 604
Flexural strength	N/mm ²	≥ 70	EN ISO 178

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Equipment cleaning agent	MC-Verdünnung PU
Colour	brown
Delivery form	Konudur Robopress 07: canister of 20 l (per component) Konudur Additive RP: bucket a of 1.25 kg
Storage	Can be stored in original sealed packages at temperatures between 10°C and 25°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GHS CODE : PU40

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018294]