

# Konudur Robopox 10

Epoxy resin filler for the force-fit repair of non-accessible sewers with robotics



## PRODUCT PROPERTIES

- Stable, mechanically processable two-component epoxy resin filler
- High chemical resistance
- Adhesion on dry, slightly damp and moist mineral substrates
- Adhesion on GRP-laminates
- Hardens even under water
- Optically identifiable due to appropriate shuttering
- Good mechanical properties after hardening
- General building supervision approval

## AREAS OF APPLICATION

- Repair and embedding of intakes / unions of concrete and ceramics in sewers by means of PE-shuttering technique
- Rehabilitation of disruptions and cracks in wastewater areas
- Sealing and filling of leaking sleeves
- REACH-assessed exposure scenarios: periodical inhalation, application

## APPLICATION ADVICE

**Substrate Preparation:** See data sheet "General Application Advice for robotic based sewer rehabilitation". The substrate may be dry, slightly damp or moist. Standing water is not permitted.

**Mixing:** Konudur Robopox 10 is supplied in pre-packed quantities. Base (comp. A) and hardener component (comp. B) are mixed thoroughly using slowly running mixers (200 - 400 rpm) until homogeneous and lump-free. Packs must be emptied completely to meet the indicated mixing ratio and for environmental reasons. Mixing by hand or mixing of partial quantities is only permitted, if scales with a surveying precision of 1 g are used for weighing the single components.

**Application (grouting / injection):** Konudur Robopox 10 is applied by means of suitable shuttering technique / -robotics. Following thorough preparation of all contact surfaces and lock-up of the waste water flow, the shuttering sleeve or rather -shield and sealing bladder can be set. Afterwards the mixed Konudur Robopox 10 is applied through the system filler plug with a pressure of  $\geq 2.5$  bar. If necessary the grouting pressure has to be adjusted depending on project and robotics. Damaged areas must be filled completely and the intake /union is to be rebuilt.

**Application (filling):** Konudur Robopox 10 may be used as filler, too. Please request our special support in these cases.

**Equipment cleaning:** Within the pot life all equipment may be cleaned with MC-Reinigungsmittel U (MC-Cleaner U). Partially or completely cured material can only be removed mechanically.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	2 : 1	base component : hardener component
	parts by volume	2 : 1	base component : hardener component
Density	kg/l	approx. 1.76	mixture
Working time <sup>1)</sup>	minutes	approx. 20	
Application conditions	°C	≥ 8 ≤ 30	air and substrate temperatures
		≥ 15 ≤ 40	material temperature
Consumption <sup>2)</sup>	kg/m <sup>2</sup> /mm	1.76	
Curing time	hours	approx. 3.5 - 5	
E-modulus (pressure)	N/mm <sup>2</sup>	≥ 7,000	EN ISO 604
Compressive strength	N/mm <sup>2</sup>	≥ 80	EN ISO 604
Tensile strength (concrete, wet)	N/mm <sup>2</sup>	≥ 3.2	EN 1542

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

1) when preheating the resin to 40° C

2) Consumption quantities are object-specific and depend on the storage, application and substrate temperature. Preliminary tests are recommended to determine object-specific consumption quantities.

Equipment cleaning agent	MC-Reinigungsmittel U
Colour	grey
Delivery form	pair of cans of 2.8 l
	4 x 2.8 pair of cans / box
	12 x 0.5 l tubular foil bag / box (comp. A + B packed separately)
	pair of cans of 50 kg (approx. 28l)
Storage	Can be stored in original sealed packages at temperatures between 8°C and 20°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. GISCODE : RE30

**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. [2300018292]