

# Konudur Robopox 20

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



## PRODUCT PROPERTIES

- Stable, mechanically processable two-component epoxy resin filler
- Resistant to wastewater and highly resistant to chemicals
- Adhesion on dry, slightly damp and moist mineral substrates Adhesion on GRP-laminates
- Harden even under water
- Optically identifiable due to appropriate shuttering
- Good mechanical properties after hardening
- Suitable for scraping with robot technology

## AREAS OF APPLICATION

- Repair and embedding of intakes / unions of concrete and ceramics in sewers by means of PE-shuttering technology
- Rehabilitation of disruptions and cracks in wastewater areas
- Sealing and filling of leaking sleeves
- Filling / Plugging of cracks and breakouts in sewers and waste water areas

## 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 20 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 and a homogeneous color is given. Packs must be emptied completely to meet the indicated mixing ratio and for environmental reasons. Mixing by hands or mixing of partial quantities is only permitted, if scales with a surveying precisions of 1 g are used for weighing the single components.

**Application (grouting / injection):** Konudur Robopox 20 ist 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 rathershield and sealing bladder can be set. Afterwards the mixed Konudur Robopox 20 is applied through the system filler pack with a pressure of  $\geq 1.5$  bar. If necessary the grouting pressure hast to adjusted depending on project and robotics. Damaged areas must be filled completely and the intake to Be rebuilt.

**Application (filling):** Konudur Robopox 20 can be used as filler, too. Please request our special support in these case.

**Equipment cleaning:** Within the pot life all equipment may be cleaned wit MC-Reiniger 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	3 : 1	comp. A : comp. B
	parts by volume	3 : 1	comp. A : comp. B
Density	kg/l	approx. 1.78	
Working time <sup>1)</sup>	minutes	approx. 20	
Application conditions	°C	≥ 8 ≤ 30	air and substrate temperatures
		≥ 15 ≤ 30	material temperature
Consumption <sup>2)</sup>	kg/m <sup>2</sup> /mm	approx. 1.78	
Curing time	hours	approx. 3.5 - 5	
Compressive strength	N/mm <sup>2</sup>	≥ 65	
Tensile strength (concrete, wet)	N/mm <sup>2</sup>	≥ 2.9	

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

1) when preheating the resin to 30°C

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

Equipment Cleaning Agent	MC-Reinigungsmittel U
Colour Shade	oxide red
Delivery Form	Packing pair à 2,8 l 4 x 2.8 l container pair per carton 12 x 0.5 l tubular bags per carton (comp. A+B packed separately)
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. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.

### 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. [2200005915]