

Konudur Robopox 18

Epoxy resin filler for the repair of cracks and out-breaks in 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
- Self-stable even in overhead areas
- Suitable for scraping with robot technology

AREAS OF APPLICATION

- Filling / Plugging of cracks and break-outs in sewers and waste water areas
- Filling / Plugging of gaps at pipe couplings in sewer pipes
- Repair and embedding of intakes / unions of concrete and ceramics in sewers by means of PE-shuttering technology

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 18 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 precision of 1 g are used for weighing the single components.

Application (filling): After mixing the resin, Konudur Robopox 18 must be filled into the robot's storage container and transported to the damaged area. Depending on the technical equipment of the robot, Konudur Robopox 18 is then inserted into the damaged area and immediately reworked using a rubber trowel.

Finishing / Back to service time: The resistance to water contact / back to service time of Konudur Robopox 18 depends on material, substrate and air temperature. To double check curing process, a retain sample of the resin might be placed in the bottom of the manhole, where the robot entered the sewer. Post-processing of filled area is normally not necessary. Overlapping material residuals can be removed using suitable milling or brushing robots.

Application (injection): Konudur Robopox 18 may be used for injection, too. Please request our special support in these cases.

Equipment cleaning: Within the pot life all equipment may be cleaned with 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	2 : 1	comp. A : comp. B
	parts by volume	2 : 1	base component : hardener component
Density	kg/l	approx. 1.3	
Working time	minutes	approx. 30	
Application conditions	°C	≥ 8 ≤ 30	air and substrate temperatures
		≥ 15 ≤ 30	material temperature
Consumption ¹⁾		approx. 1.3	
Tensile strength (concrete, wet)	N/mm ²	≥ 2.4	

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

1) 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	green
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.

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. [2300018741]