

Konudur Robogrout 19

Cement-based grouting mortar for rehabilitation of non-accessible sewers with robotics



PRODUCT PROPERTIES

- Cement-bound, one-component
- Can be pumped long distances
- Short stripping times
- Good adhesion to mineral substrates
- WW-grouting mortar (XWW3) acc. to DIN 19573
- Hardening starts quickly even at low temperatures
- Impermeable to water in accordance with DIN 1045
- Low-shrinkage
- Fibre-modified

AREAS OF APPLICATION

- Renovation laterals in sewerage systems with robotics
- REACh-assessed exposure scenarios: periodical inhalation, application

APPLICATION ADVICE

Substrate Preparation: See the data sheet "General Application Advice for materials to the sewer repair with robotics". The area to be injected must be professionally cleaned and sealed by pre-injection in case of water intrusions.

Mixing: The grouting mortar is prepared using Konudur Robogrout 19 (VP) dry mortar and water. Pour out the water, scatter the dry mortar on it and mix to a uniform, lump-free, pumpable mortar consistency. Slow-running double stirrers are suitable for mixing the mortar. The mixing time is 2 minutes.

Mixing Ratio: See the "Technical Data" table. About 4.4 to 4.8 litres of water are needed for a 20 kg bucket of Konudur Robogrout 19 (VP). Since Konudur Robogrout 19 (VP) is cement-bound, the amount of water needed may vary. If Konudur Robogrout 19 AC accelerator is used, add approx. 1

Application: Konudur Robogrout 19 (VP) is transported and injected grouted with suitable pumps. Mortar that has already started to set must not be made plastic again by adding more water. Konudur Robogrout 19 (VP) is usually applied with injection equipment and can be transported over long distances. Wherever possible, suitable transport hoses should be used for this. For all relevant information, please request our special advice. The transport hoses must be emptied within the processing time and cleaned thoroughly with water.

Accelerated curing: In cold ambient temperatures it is possible to shorten the hardening times of Konudur Robogrout 19 grout by using the curing accelerator MC-Additive Speed. See the mixing table below. When using a larger quantity of MC-Additiv Speed, the working time of the Konudur Robogrout 19 grout is reduced. Depending on the length of the pumping section and the temperature, the quantity of MC-Additiv Speed must be adjusted.

Curing: There is no need for post-treatment when the ambient air humidity is above 85 %.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	20 : 4.4 - 4.8	powder component : water
Working time		approx. 15	at 23° C and 50 % rel. humidity
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
Fresh mortar bulk density	kg/dm ³	approx. 2	
Maximum grain size	mm	≤ 0.5	
Compressive strength	N/mm ²		EN 196-1
24 h		≥ 10	
7 d		≥ 25	
28 d		≥ 45	
Flexural strength	N/mm ²		EN 196-1
24 h		≥ 2	
7 d		≥ 4	
28 d		≥ 8	

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

Equipment cleaning agent	water
Colour	grey
Delivery form	20 kg bag
Storage	Can be stored in original sealed packages at temperatures between 5°C and 25°C in dry conditions for at least 6 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 : ZP1

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. [2300020100]