

## Robotic based sewer rehabilitation

### APPLICATION ADVICE

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**Substrate Preparation:** Prior to substrate preparation measures the damaged area is to be rinsed with high-pressure water jetting. Afterwards remove drain barriers such as broken fragments, radicular ingrowths, incrustations with a mill robot. Also the substrate preparation at the damaged spot is to be done with a mill robot. In the damaged spot remaining milling residuals have a negative effect on the adhesion between substrate and rehabilitation material. Therefore rinse again by high-pressure water jetting after substrate preparation. After preparation measures the substrate must be clean and free from oil, grease, contaminates, drain barriers and other materials that would prevent a good bond. The surface must show a sufficient roughness.

**Water controlling measures:** Depending on the robotics used for the rehabilitation, waste water flow is to be stopped during the rehabilitation, during the use of robotics in the main sewage and, in case of rehabilitation of laterals, also in the lateral pipe itself. Remove dewatering measures only after a fully curing of rehabilitation material. Basically the applied rehabilitation material is to be protected after the application against saponification / washout.

**Mixing / Maxing ratio:** Mixing has to accord to the current technical data sheets. Basically the mixing ratio given in the technical data sheets must be observed.

**Application:** The application of the material depends on the robotic technique. Basically material and robot must be synchronized.

**Application Conditions:** The application time depends on the climatic conditions. Material in the process of setting must not be stirred or made workable again. Observe the precise information regarding the permissible air, substrate and material temperature given in the technical data sheets of the respective products. Heating up of the rehabilitation material during the curing is possibly necessary.

**Curing:** After the complete curing of the applied products they can be mechanical cured e.g. with wire brushes or milling tools.

**Safety Advice:** The safety advice for cement-based or reaction resin-based materials and substances must be observed. Protective clothing, protective gloves and safety glasses / face protection must be worn when using this product. Observe the safety advice and hazard notices on the labels and safety data sheets. The relevant safety data sheets can be downloaded from [www.mc-bauchemie.de](http://www.mc-bauchemie.de).

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**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. [2300018945]