



General Application Advice

For short liner systems

Application Guidelines

Substrate Preparation

Prior to substrate preparation the entire reach / pipe at its best, but at least the damaged spot to be repaired is to be cleaned by high pressure water flushing. Following this, the damaged spot to be repaired is to be prepared using suitable milling robots. After preparation the substrate must be free and clean from any loose matter, dust, oil, grease, cement slurries and other materials that would prevent a good bond. In case of pottery pipes, stoneware glaze on inner pipe surface has to be removed at least in the border areas of the subsequently applied patch liner. Reaming residues of milling process might have negative impact to adhesion between repair materials and substrate. Therefore every substrate preparation has to be followed by high pressure water flushing.

Mixing

Base (component A) and hardener (component B) must be carefully mixed to a uniform consistency by using a slow-running mechanical stirrer (anchor stirrer) (approx. 300 - 400 r/min.) or suitable static mixers. In case of pigmented resins, base and hardener should be stirred separately beforehand for about 1 minute. Make sure that material in corners and sides of the mixing container is thoroughly mixed as well. After mixing the material should be filled into a clean container and briefly mixed again ("re-potting"). Mixing by hand is not allowed. Please find mixing and processing time in the respective technical data sheet. Completely emptying of packs is absolutely necessary for ecological reasons and compliance with mixing ratio.

Application

Application of reaction resins for rehabilitation of short liners is done by lamination method. Required amount of reaction resin is applied onto ECR-glass fibre complex, evenly distributed by using a plastic spatula and merged professionally. ECR-glass fibre complex must be dry and free of all substances that can cause problems with wet-

ting (by resin) or curing. Otherwise a deep wetting of the complex is not possible. Insufficient wetting may cause loss of strength and subtotal curing of reaction resin. Exact amounts and procedure can be gathered from the technical data sheets, the General Building Inspection Test Report Z-42.3-391 (Konudur LM-Liner) of the German Institute for Construction Technology and the executive statements.

Curing / Release

Short liners are cold-curing. Curing time depends on temperature and can be seen in the technical data sheets. Through addition of the catalyst Konudur 250 OM-PL Beschleuniger the curing process can be shortened. For more information please request special advice. A sample of the drenched short liner should be stored / cured (under almost same conditions, temperatures as in pipe) near the installation point (e.g. bottom of pipe) to assess the demoulding of cold-curing.

General Information

The amounts used, processing time and time to reach full chemical and mechanical load capacity depend on temperature and the nature of the project. Chemical action and the effect of light may result in changes of colour. Generally these have no adverse effect on the usability of the product. Areas subject to chemical action and mechanical loads are subject to wear in use. The stated processing times are shortened by high temperatures and increased by low temperatures. A 10 K temperature change doubles or halves the stated times.

Safety Advice

Protective clothing, protective gloves and safety glasses / face protection must be worn when using this product. Observe the hazard notices and safety advice given on the labels and safety data sheets. The relevant safety data sheets can be downloaded from www.mc-bauchemie.de.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

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