Manhole and sewer repair mortars

APPLICATION ADVICE

Substrate Preparation: The substrate must be clean and free from all loose matter, dust, oil, grease, cement slurries and other materials that would prevent a good bond. The adhesive tensile strength of the substrate surface must conform to the relevant technical regulations.
After preparation the substrate must exhibit a sufficient surface roughness. To achieve this the surface-near aggregates must be exposed. Sewer masonry needs to be prepared so that the masonry exhibits a sufficient surface roughness. In all component transitions of the wall / floor / ceiling connection, fillets with a radius of at least 5 cm are to be formed using a hydraulically setting special mortar system to produce surfaces suitable for coating. For further information see general application advices “Substrates and substrate preparation for rehabilitation of manholes and sewage structure”.

Reinforcement: Exposed reinforced steel must be derusted to a standard degree of cleanliness SA 2 ½, according to DIN EN ISO 12944-4. There must be no rustfilm or other corrosion-including substances present. Quartz-free grit-blasting is a suitable cleaning method. The derusted reinforcement has to be coated with a corrosion protection (e.g. Nafufill KMH) immediately after preparation whereby the details of the technical data sheets must be observed.

Bond Coat: Before application of the bonding layer the substrate must be pre-wetted. In case of highly absorbent substrates a repeated pre-wetting might be necessary. The bonding layer must be thoroughly brushed into the matt-moist, but not water-saturated substrate. Following this application step the freshly mixed mortar is applied fresh-in-fresh into the matt-moist bonding layer. Bonding layer is not necessary if the wet spraying method or spinning method is used for application.

Application Conditions: Application time depends on climatic conditions. Material which has begun to stiffen must not be mixed or used again. The minimum application temperatures for substrates, air and materials must be observed. At temperatures below + 5 °C application must not continue. All necessary measures to prevent a drop below this temperature during the curing phase must be taken.

Multiple Layer Application: Application can be done in one or more layers. If two or more layers are applied, each subsequent layer must be applied while the previous one is sufficiently stiffened but not dried out. If the previous layer is dried out it must be pre-wetted and a bonding layer must be applied.
Application has to accord to the application instruction given in the technical data sheets. Should hereafter (by manual application) a coating with a protection layer be conducted, roughen the surface of the top layer with appropriate means (e.g. structuring with a coconut brush).
ombran MHP-SP 3000 is not allowed to be used together with hybridsilicate coatings as a reprofiling mortar.

Curing: Curing according to the indications given in the technical data sheets. In buildings that are exposed to strong winds during application, are freely weathered or do not have high humidity after application due to draining, a chemical curing with MC-RIM PROTECT C must be applied. In the case of a subsequent coating, chemical curing agents like MC-RIM PROTECT C should not be used. If this is impossible, it is necessary to removethe curing agent afterwards by blasting.

Safety Advice: The safety advice for cement-bound materials and substances must be observed. Protective clothing, protective gloves and safety glasses / face protection must be worn when using these products. 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.

MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8 · 46238 Bottrop
Tel. +49 (0) 2041-101 0 · Fax: +49 (0) 2041-101 400
info@mc-bauchemie.de · www.mc-bauchemie.de

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. [2300018947]

MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8 · 46238 Bottrop
Tel. +49 (0) 2041-101 0 · Fax: +49 (0) 2041-101 400
info@mc-bauchemie.de · www.mc-bauchemie.de