

General Application Advice

For manhole and sewer repair mortars

Application Guidelines

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. 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 (Zentrifix 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 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 lamination with a protection layer be conducted, roughen the surface of the top coating 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 the case of a subsequent coating, chemical curing agents like MC-RIM PROTECT C should not be used. In doubtful cases, it is necessary to blast the curing agent.

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 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.

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.

Edition 03/20. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.