

## Spinning application of ombran FT with MRT-technology

### APPLICATION ADVICE

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**General:** The manufacturer's specifications in the ombran FT technical data sheet, the general processing instructions and the equipment planner for hybrid silicate coatings as well as the manual for mechanical coating processes must always be observed. The following data are only supplements.

Only round manholes with max. DN 1000 can be coated. Do not use ombran MHP-SP 3000 together with ombran FT as a reprofiling mortar as it is not compatible with hybrid silicate coatings. Each application of ombran FT in a manhole must be considered as a single action. A progressive coating with ombran FT from manhole to manhole without cleaning the spinning equipment is not recommended. A replacement hose with couplings should always be available if stoppers occur in the hose.

**Reprofiling:** Before the hybrid silicate coating is applied by spinning, mineral reprofiling as a capillary breaking layer of at least 10 mm thickness with ombran MHP-SP must be carried out by spinning application with MRT. Inside corners have to be rounded by means of fillets, outside edges have to be rounded off. Spin-rough mortar surfaces of ombran MHP-SP do not require additional structuring.

**Surface preparation:** After approx. 1 day waiting and curing time the reprofiled manhole surface must be cleaned of all dirt and separating components by using the MRT blasting unit (automated combination of pressurized water and quartz-free granulate blasting). The distance between the nozzles and the wall should be as short as possible (optimally approx. 10 cm). At least 2 cleaning cycles (cycle = upward and downward movement) must be carried out with  $\geq 400$  bar water and granulate. In addition, at least one cycle for washing off the granulate must be carried out only with water.

In horizontal areas (manhole bottom, channel, etc.) or, if necessary, also in the cone area, a manually guided blasting nozzle must also be used.

Before overcoating with ombran FT, the re-profiling must be dry on the surface. Overcoating can be carried out after approx. 24 h at the earliest, better 72 h.

**Processing:** The application is done with the HS Coating Head in combination with the MRT Spinning Unit. The coating material mixed according to the manufacturer's specifications is pumped without the addition of air (dense phase method) using a suitable screw or diaphragm pump via the hose (25 mm inner diameter) to the spinning head. There, the material is accelerated by centrifugal force and thus torn open.

The speed of the spinning head and the pump output must be adjusted according to the temperature and the surface appearance achieved (recommended basic setting: centrifugal speed MRT Coating Head: 2,000 rpm at standard vertical speed 1.6 m/min, conveying speed Dittmann DP 8: stage 0.9).

The correct timing between mixing and processing speed (pumping) must be found in order to ensure continuous work progress. The aim is an even and rapid coating of the manhole, therefore no pauses should be made during a coating process with ombran FT.

The required total layer thickness of at least 4 mm above grain tips must be ensured in all application areas. An overcoat thickness of approx. 1 mm must be planned to compensate for the impact craters typical of spinning application (temperature-dependent).

**Safety instructions:** The usual rules of conduct for reactive resin-based systems must be observed. During processing, suitable protective clothing, gloves, goggles / face must be worn.

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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. [2100004866]