

PRODUCT PROPERTIES

- Hand and spray applicable coating system
- Highly resistant to chemicals
- Good adhesion to concrete, mineral based mortars, steel and stainless steel fittings
- Electrostatic conductive
- Resistant to heating oils, petrol and diesel, biodiesel, aviation fuel, internal combustion engine oils and vehicle gearbox oils
- Test certificates for applicability in separators in accordance with EN 1825-1 and EN 858-1
- German general building supervision approval for retention basins made of concrete in LAU-structures

AREAS OF APPLICATION

- Coating systems for separator installations for grease
- Coating systems for separator installations for light liquids
- Coating system according to German WHG § 62 / 63
- REACH-assessed exposure scenarios: periodical inhalation, application, long-term water contact

APPLICATION ADVICE

Substrate Preparation: See the data sheet "General Application Advice for hybrid-silicate coating systems".

Mixing: ombran FT-Harz (resin) and ombran FT-Härter (hardener) are mixed by fast-running single stirrer (min. 500 rpm) for at least 2 minutes until a homogeneous mass is achieved. Then the powder component of ombran FT is added while mixing slowly and afterwards mixed again with fast-running stirrer (min. 500 rpm) for at least additional 2 minutes. According to equipment planner only helical ribbon and basket agitators are permitted. Mixing by hand and the mixing of partial quantities is not allowed. ombran FT must not be mixed with water.

Mixing Ratio: The preparation of 22 kg of finished product requires 6.8 kg ombran FT-Harz (resin), 4.2 kg ombran FT-Härter (hardener) und 11 kg ombran FT-Pulver (powder).

Application (hand application): Apply ombran FT to the prepared substrate using a trowel, plastic or steel smoothing tool. Depending on material and ambient temperature a material maturing time of 5 minutes must possibly be observed before the application. First apply a thin "scratch coat" with high pressure. Overcoat it "fresh-in-fresh" and as well with high compacting pressure by 4 mm layer thickness (one working step, maybe several layers) above grain tips subsequently. Any trowel marks from hand working must be smoothed out immediately.

Application (spray / spinning application): For usage of spraying method please request a separate technical advice and observe the equipment planner. For spray application, we also recommend a preceding scratch coat. For spinning application in combination with MRT-technology, please refer to the leaflet "General processing instructions for spinning application of ombran FT with MRT-technology."

Curing: During application and for 24 hours afterwards ombran FT must be protected from water and intense sunlight. A high relative air humidity > 80 % optimizes the hardening process. Condensate formation can be tolerated after application. During the time mentioned above the air and substrate temperature must be between + 10 °C and + 25 °C.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	30.9 : 19.1 : 50	base component : Hardener component : aggregate
Working time	minutes	approx. 30	
Application conditions	°C	≥ 10 ≤ 25	air, substrate and material temperatures
	K	3	above dew point
1)	%	≤ 80	rel. humidity
2)		> 80	rel. humidity
Consumption ³⁾	kg/m ² /mm	approx. 1.5	
Resilient after (chemical full)	hours	approx. 24	
Resilient after (mechanically full)	hours	approx. 24	
Layer thickness	mm	≥ 4	above grain tips
Water resistant after	hours	approx. 24	
Fresh mortar bulk density	kg/dm ³	approx. 1.56	
Flexural strength	N/mm ²		
7 d		approx. 14	
Compressive strength	N/mm ²		
24 h		approx. 25	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

1) during coating application

2) after the coating work / curing

3) Consumption rates depend on the roughness of the substrate as well as storage, application and substrate temperature. Preliminary tests are recommended to determine object-specific consumption quantities.

Equipment cleaning agent	MC-Reinigungsmittel U
Colour	black
Delivery form	6.8 kg tin can (resin), 4.2 kg can (hardener), 11 kg bucket (powder)
Storage	Can be stored in original sealed packages at temperatures between 5°C and 25°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : PU40

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. [2300018301]