

ombran FT

Hybrid-silicate coating for separators

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

See the "Technical Data" table. 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-on-fresh" and as well with high compacting pressure by 4 mm layer thickness 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 spin application in combination with MRT technology, please refer to the leaflet "General processing instructions for spin 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.

Safety Advice

Observe the hazard notices and safety advice on the labels and safety data sheets.

Technical Data for ombran FT

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.w.	30.9 19.1 50.0	ombran FT-Harz (resin) ombran FT-Härter (hardener) ombran FT-Pulver (powder)
Application time	min	approx. 30	
Application conditions	°C K %	+ 10 to + 25 3 max. 80	material, air and substrate temperature dewpoint distance relative air humidity (only during coating)
Coverage**	kg/m ² /mm	approx 1.5	
Layer thicknesses	mm	≥ 4	above grain tips
Fresh mortar density	kg/dm ³	approx. 1.56	
Compressive strength	MPa	approx. 25.0	after 1 d
Bending tensile strength	MPa	approx. 14.0	after 7 d

Product Characteristics for ombran FT

Colour	black
Form of delivery	6.8 kg tin bucket (resin) / 4.2 kg canister (hardener) / 11 kg tub (powder)
Equipment cleaner	MC-Reinigungsmittel U (MC-Cleaner U)
Storage	If tightly sealed, the original packs can be stored for at least 1 year at temperatures between + 5 °C and + 25 °C in dry conditions. The same requirements apply to transport.
Pack disposal	Make sure the pack is completely empty.

* Unless otherwise stated, all technical data were determined at + 23 °C und 50 % relative air humidity.

** Quantities used depend on the object and on the roughness of the substrate as well as on the storage and working temperatures and the temperature of the substrate. We recommend carrying out experiments beforehand to determine object-specific quantities.

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.