



# ombran FT

## Silicate hybrid coating mortar for the coating of separator installations

### Product Properties

- High mechanical strength when cured
- Highly resistant to chemicals
- Adheres to concrete, steel and mineral substrates
- Resistant to heating oils, petrol and diesel, biodiesel, internal combustion engine oils and vehicle gearbox oils
- Test certificates in accordance with DIN EN 1825-1 and DIN EN 858-1

### Areas of Application

- Coating systems for grease separator installations
- Coating systems for separator installations for light liquids
- Coating systems to WHG § 19

### Application Advice

#### Cleaning

See technical data sheets "ombran CL".

#### Substrate Preparation

The substrate must be dry (as defined in the DafStb directive on the protection and repair of concrete components (Schutz und Instandsetzung von Betonbauteilen), October 2001 edition, Part 2, Section 2.3.5 Moisture content of concrete (Betonfeuchte), free and clean of all loose matter, dust, oil, grease, cement slurry and other materials that would have a separating effect. The adhesive tensile strengths of the substrate surface must conform to the relevant technical regulations.

After substrate preparation, the roughness of the substrate must be sufficient. To achieve this with concrete substrates, the aggregate close to the surface must be exposed.

#### Mixing

Mix ombran FT-Harz (resin) and ombran FT-Härter (hardener) for two minutes with a slowly rotating stirrer (max. 400 r/min) to a smooth consistency. Then add the ombran FT-Pulver powder components and mix for a further two minutes with the stirrer running fast. Mixing by hand and the mixing of partial quantities is not allowed.

#### Mixing Ratio

See the "Technical properties" table. The preparati-

on 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

Apply ombran FT to the prepared substrate using a trowel and a plastic or steel smoothing tool or alternatively in a single operation by the wet spraying method, until the coating is at least 4 mm thick. When applying the coating by hand it is a good idea to apply a thin "scratch coat" with high pressure and then overcoat it "fresh-on-fresh". Any trowel marks from hand working must be smoothed out immediately.

Wet spraying is recommended for coating large areas. The raw sprayed surface can be smoothed. Before using the wet spraying method please seek advice from our application technology department.

#### Curing

During application and for 24 hours afterwards, the surfaces must be protected from rain, intense sunlight and condensation. During this period. the temperature of the materials, air and ambient conditions must be between +10 °C and +25 °C. The relative air humidity must not be more than 80 %.

#### 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	ombran FT-Harz (resin) ombran FT-Härter (hardener) ombran FT-Pulver (powder)
Application time	minutes	approx. 30	
Temperature of use	°C K %	+10 to +25 3 max. 80	Material, air and substrate temperature Dewpoint distance relative air humidity
Coverage**	kg/m <sup>2</sup> /mm	approx. 1.45	ombran FT (mix)
Layer thicknesses	mm	approx. 4 approx. 6	max. coat thickness per work step (dry coat thickness) max. total thickness (dry coat thickness)
Fresh mortar raw density	kg/l	approx. 1.45	
Compressive strength	N/mm <sup>2</sup>	approx. 25	after 1 d
Bending tensile strength	N/mm <sup>2</sup>	approx. 14.0	

### Product Characteristics for ombran FT

Colour	black
Form of delivery	6.8 kg canister (resin) / 4.2 kg canister (hardener) / 11 kg tub (powder)
Equipment cleaner	MC-cleaner U
Storage	If tightly sealed, the original packs can be stored for at least one year at temperatures between +5 °C and +25 °C in dry conditions. The same requirements apply to transport. ombran FT-Harz (resin) can be stored for up to six months.
Pack disposal	Make sure the pack is completely empty. Refer to our information sheet on the packaging order "The MC disposal concept for completely empty transport and sales packaging". We would be pleased to send you this on request.

\* 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 12/08. 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.