

ombran CPS

Hybrid-silicate coating system for sewage manholes exposed to biogenic sulphuric acid corrosion

Product Properties

- Hand and spray applicable coating system
- High mechanical strength when cured
- Highly resistant to chemicals
- Good adhesion on mineral substrates (e.g. concrete)
- Resistant to biogenic sulphuric acid corrosion
- General building supervision approval

Application Areas

- Sewage manholes exposed to biogenic sulphuric acid corrosion
- Pump manholes in domestic wastewater disposal exposed to biogenic sulphuric acid corrosion
- Application is not suitable for weather exposed surfaces
- REACh-assessable 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 CPS-Harz (resin) and ombran CPS-Härter (hardener) are mixed by slow-running double stirrers (max. 400 rpm) for at least 2 minutes until a homogeneous mass is achieved. Afterwards the powder component of ombran CPS is added and mixed again with fast-running double stirrers for at least 2 minutes. Mixing by hand and the mixing of partial quantities is not allowed. Ombran CPS must not be mixed with water.

Mixing Ratio

See the table "Technical properties". The preparation of 22 kg of finished product requires 6.8 kg ombran CPS-Harz (resin), 4.2 kg ombran CPS-Härter (hardener) and 11 kg ombran CPS-Pulver (powder).

Application (Hand application)

Apply ombran CPS to the prepared substrate using a trowel and a plastic or steel smoothing tool. First apply a thin "scratch coat" with high pressure. Overcoat it immediately "fresh-on-fresh" and as well with high compacting pressure; apply 4 mm layer thickness in one workstep subsequent-

ly. Any trowel marks from hand working must be smoothed out immediately.

Before the application, depending on the material and ambient temperature, if necessary a material maturing time of 5 minutes must be observed.

Application (Spray application)

For using spraying method please request a separate technical advice and observe the equipment planner.

Curing

During application and for 24 h afterwards, ombran CPS must be protected from rain, intense sunlight and condensation. During this time the air and substrate temperature must be between + 10 °C and + 25 °C. The relative air humidity must not be more than 80 %.

General information

Exposure to UV-light may cause colour changes, which usually do not effect the properties and usability of the coating.

Safety Advice

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



Technical Data of ombran CPS

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.w.	30.9 19.1 50.0	ombran CPS-Harz (resin) ombran CPS-Härter (hardener) ombran CPS-Pulver (powder)
Application time	min	approx. 30	
Application conditions	°C °C K %	+ 10 - + 25 > + 15 3 max. 80	air and substrate temperature material temperature dewpoint distance relative air humidity
Coverage**	kg/m ² /mm	approx 1.5	
Layer thickness	mm	≥ 4	
Resistant to water after	h	approx. 24	

Product Characteristics of ombran CPS

Colour	blue
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 one year at temperatures between + 5 °C and + 25 °C in dry conditions. Exception: ombran CPS-Harz (resin) can be stored for max. 6 months. 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 10/12. 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.