ombran® ASP

Cement-bound sealing slurry with high sulphate resistance

Product Properties

- Cement-bounded, one-component, tricalcium aluminate-free binding agent (C_3A-free)
- Impermeable to water, frost-resistant
- Allows diffusion of water vapour
- Resistant to very severe sulphate attack
- Good adhesion on mineral and cement-bound substrates
- Hand and spray application

Areas of Application

- Sealing of ground-connected construction parts, e. g. concrete and masonry sewers, tanks
- Sealing against capillary water, rising damp and pressurised surface water
- REACh-assessed exposure scenarios: periodical inhalation, application, long-term water contact

Application Advice

Substrate Preparation
See the data sheet “General Application Advice for sealing slurries”.

Pre-Wetting/Bonding Agent
See the data sheet “General Application Advice for sealing slurries.

Mixing
The mineral sealing slurry is made up using ready-mixed ombran® ASP and water. Pour out themajor part of the water, scatter the ready-mix mortar on it and mix to a uniform, lump-free consistency. The rest of the water is used to adjust the consistency as necessary. Pug mill mixers and slow-running double stirrers are suitable for mixing the mortar. Mixing by hand and the mixing of partial quantities is not allowed. The mixing time is three minutes.

Mixing Ratio
See the “Technical Data” table. About 5.5 to 6.8 litres of water are needed for a 25 kg sack of ombran® ASP. Since ombran® ASP is cement-bound,the amount of water needed may vary.

Application
Depending on application area ombran® ASP has to be applied at least in two layers using suitable swabs, brushes, and trowels or spraying technology. Ensure a uniform layer thickness per work step. Angles and edges are to be coated thoroughly. Observe latency between each layer mentioned in the table “Technical data”.

Curing
During curing, ombran® ASP must be protected from excessive water loss for at least 72 h (chemical curing, jute sacking, foil etc.). Particular attention must be given to the relevant effects of temperature and wind. If further coats or other products are to be applied, curing agents with a separating effect must not be used.

Safety Advice
Observe the hazard notices and safety advice on the labels and safety data sheets.
GISCODE: ZP1

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Technical Data for ombran® ASP

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.w.	25 : 5.5 - 6.8	ombran® ASP : water
Application time	min	approx. 60	
Application conditions	°C	+ 10 to + 30 + 10 to + 25	air and substrate temperature material temperature
Coverage**	kg/m²/mm	approx. 1.6	ready-mix mortar
Layer thickness	mm	approx. 1 - 2 approx. 4	per work step max. total layer thickness
Maximum grain size	mm	approx. 1.0	
Fresh mortar raw density	kg/l	approx. 2.0	
Development of compressive strength	MPa	approx. 16.0 approx. 23.0 approx. 35.0 approx. 40.0	after 1 d after 2 d after 7 d after 28 d
Minimum layer thickness in case of rising damp and non-retaining seepage	mm	> 2	at least 2 layers
Minimum layer thickness in case of retaining seepage and pressurised water	mm	> 3	at least 3 layers
Latency	h	approx. 6 - 24 approx. 24	between layers resistance against water

Product Characteristics for ombran® ASP

Colour	grey
Form of Delivery	25 kg sack
Equipment Cleaner	water
Storage	If 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.
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 07/15. 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.

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