



# ombran<sup>®</sup> HB

## Highly sulphate-resistant, cement-bound bonding agent for mineral substrates

### Product Properties

- Cement-bounded, one-component, tricalcium aluminate-free bonding agent (C<sub>3</sub>A-free)
- General building supervision approval
- Allows diffusion of water vapour
- Bonding agent for mineral substrates

### Areas of Application

- Bonding agent for cement-based mortars from the ombran product range and for the renovation of sewerage systems
- REACh-assessed exposure scenarios: periodical inhalation, application, long term water contact

### Application

#### Substrate Preparation

See the data sheet "General Application Advice for manhole and sewer repair mortars".

#### Mixing

The mineral bonding agent is made up using ready-mixed ombran<sup>®</sup> HB and water. Measure out the water and scatter the ready-mix mortar on it while stirring constantly. Mix until smooth and free from lumps until a spreadable consistency is obtained. Slow-running double stirrers are suitable for mixing the mortar. The mixing time is 3 minutes. Mixing by hand and the mixing of partial quantities is not allowed.

#### Mixing Ratio

See the "Technical Data" table. About 4.0 to 4.5 litres of water are needed for a 25 kg bag of

ombran<sup>®</sup> HB. Since ombran HB is cement-bound, the amount of water needed may vary.

#### Application

Pre-wet the substrate before applying ombran<sup>®</sup> HB. Highly absorbent substrates should be pre-wetted more than once. Brush ombran<sup>®</sup> HB thoroughly into the damp but not saturated substrate. Do not prepare an area larger than that which can be coated with mortar "fresh-on-fresh". Short-bristled brooms or brushes are suitable application tools. It is not allowed to agitate congealed material or make it processible.

#### Safety Advice

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



## Technical Data for ombran® HB

Characteristic	Unit	Value*	Comments
Mixing Ratio	p. b. w.	25 : 4.0 - 4.5	ombran® HB : water
Application time	min	approx. 20	
Application conditions	°C	+ 5 to + 30	air, substrate and material temperature
Coverage**	kg/m <sup>2</sup>	approx. 1.1	dry mortar
Fresh mortar raw density	kg/l	approx. 2.2	

## Product Characteristics for ombran® HB

Colour	grey
Form of Delivery	25 kg sack
Equipment Cleaner	water
Storage	If sealed, the original packs can be stored for 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.