

# ombran SVG

## Hydraulic-setting manhole frame grouting mortar

### Product Properties

- Cement-bound, one-component
- Very high fluidity
- High initial and final strengths
- Practically shrink-free curing
- Tested resistance to freeze de-icing salt according to CDF and CIF method
- Very good adhesion to mineral substrates

### Areas of Application

- Grouting mortar for manhole frame adjustment
- Void-free grouting of the joint between manhole frame and taper
- REACh-assessed exposure scenarios: periodical inhalation, application

### Application

#### Substrate Preparation

See the data sheet "General Application Advice for hydraulic-setting manhole frame grouting mortars".

#### Pre-wetting

See the data sheet "General Application Advice for hydraulic-setting manhole frame grouting mortars".

#### Mixing

The grouting mortar is prepared using ready-mixed ombran SVG and water. Pour out the water, scatter the ready-mix mortar on it and mix to a uniform, lump-free workable mortar consistency. Pug mill mixers and slow-running double stirrers (max. 400 rpm) are suitable for mixing the mortar. Mixing takes at least 3 minutes. An extended mixing time (max. 5 minutes) causes an accelerated reaction of the grouting mortar. Mixing by hand and mixing of partial quantities is not allowed.

#### Mixing Ratio

See the "Technical Data" table. About 5.1 to 5.6 litres of water are needed for a 25 kg bag of ombran SVG. The prescribed mixing ratios must be strictly adhered to. The desired consistency can be obtained by varying the amount of water

within the permitted tolerance range. In case of ambient temperatures  $< + 15\text{ °C}$  use preheated water (tempered up to  $+ 40\text{ °C}$ ) if an acceleration of the reaction is required.

#### Application / Installation

See the data sheet "General Application Advice for hydraulic-setting manhole frame grouting mortars". Apply the ombran SVG immediately after mixing. To prevent air pockets, pour the mortar continuously from one side only. The mortar can be supported to flow by poking it with a wire loop. Mix only as much ombran SVG as can be applied within the stated processing time. Avoid heavy vibrations and shaking close to the site during application and curing period (temperature-dependent) of the grouting mortar.

#### Curing / Subsequent works

See the data sheet "General Application Advice for hydraulic-setting manhole frame grouting mortars".

#### Safety Advice

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

GISCODE: ZP1

### Technical Data of ombran SVG

Characteristic	Unit	Value*	Comments
Mixing Ratio	p.b.w.	25 : 5.1 - 5.6	ombran SVG : water
Application time	min	7 - 10	depends on temperature
Application conditions	°C	+ 5 to + 30	air, substrate and material temperature
Coverage**	kg/l	approx. 1.73	dry mortar
Layer thickness / gap width	cm	1 - 6	per work step
Maximum grain size	mm	approx. 0.5	
Fresh mortar raw density	kg/l	approx. 2.1	
Development of compressive strength	MPa	approx. 9.6 approx. 22.4 approx. 51.4 approx. 61.0	after 1 h after 1 d after 7 d after 28 d
Development of bending tensile strength	MPa	approx. 3.5 approx. 4.4 approx. 9.6 approx. 10.5	after 1 h after 1 d after 7 d after 28 d

### Product Characteristics of ombran SVG

Colour	grey
Form of Delivery	25 kg bag
Cleaning Agent	water
Storage	If sealed, the original packs can be stored for at least 6 months 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.