

## PRODUCT PROPERTIES

- WW-repair mortar (B1 - XWW3) acc. to DIN 19573: 2016-3
- Cement-bound
- One-component
- Rapid strength development
- Does not contain any corrosion-promoting substances
- Volumetrically stable according to DIN 1164
- Able to water vapour diffusion
- High mechanical resistance
- Early resistance to water impact

## AREAS OF APPLICATION

- Partial repair and reprofiling of damaged structures made of concrete or masonry
- Closing of manhole ring gaps
- Repair of voids and breakouts at concrete compounds and concrete pipes
- Forming of grooves
- REACh-assessed exposure scenarios: periodical inhalation, application, long-term watercontact

## APPLICATION ADVICE

**Substrate Preparation:** See the data sheet „General Application Advice for manhole and sewer repair mortars”.

**Pre-wetting / Bond Coat:** See data sheet „General Application Advice for manhole and sewer repair mortars”. ombran HB must be used as bonding agent, the details of the technical data sheet of ombran HB must be observed.

**Mixing:** The mineral repair mortar is produced from the ready-mixed dry mortar ombran R and water. For this purpose, the water is poured in, the ready-mixed dry mortar is added and both are mixed homogeneously and without lumps until a mortar suitable for processing is obtained. For mixing use suitable forced action mixers or slowly rotating mixers. Mixing takes at least 3 minutes.

**Mixing Ratio:** For 1 kg ombran R approx. 0.15 litres of water are required. Since ombran R is a cement-bound material the water demand may slightly vary.

**Application:** ombran R is applied fresh-in-fresh onto the bonding agent using suitable tools (e.g. steel float, trowel) and is to be compacted. Higher layer thicknesses must be applied in several layers.

**Curing:** ombran R must be protected for at least 72 h from drying out too rapidly (jute, foil, etc.). Hereby, relevant temperatures and wind influences must be observed. If further coatings or other products are to be applied, curing agents with a separating effect must not be used.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	1 : 0.15	powder component : water
Working time	minutes	approx. 7	at 20° C
Application conditions	°C	≥ 5 ≤ 30	air, substrate and material temperatures
Consumption (flat) <sup>1)</sup>	kg/m <sup>2</sup> /mm	1.7	factory-dried mortar
Layer thickness	mm	≥ 3	per operation
		≤ 15	per operation
		approx. 30	maximum total layer thickness
Water resistant after	minutes	approx. 90	at 20° C
Maximum grain size	mm	approx. 1.2	
Fresh mortar bulk density	kg/dm <sup>3</sup>	approx. 2.2	
Compressive strength (strength development)	N/mm <sup>2</sup>		
		1 h	approx. 15
		24 h	approx. 24
		7 d	approx. 33
		28 d	approx. 37
Flexural strength (strength development)	N/mm <sup>2</sup>		
		1 h	approx. 3.5
		24 h	approx. 4.5
		7 d	approx. 6
		28 d	≥ 6

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

1) object specific

Equipment cleaning agent	water
Colour	grey
Delivery form	15 kg tub(s)
Storage	Can be stored in original sealed packages at temperatures between 5°C and 25°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : ZP1

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018309]