

ombran W

Rapid-curing, expanding plugging mortar
to stop local water infiltration



PRODUCT PROPERTIES

- WW-repair mortar (B1-XWW1) acc. to DIN 19573: 2016-3
- WW-jointing mortar (XWW1) acc. to DIN 19573: 2016-3
- Cement-bound, one-component
- Expanding during curing process when exposed to water (swelling effect)
- Does not contain any substances that promote corrosion
- Volume stability in accordance with DIN 1164

AREAS OF APPLICATION

- Rapid and permanent stopping of leaks and water intrusions in structures of concrete, masonry and natural stone
- Sealing pipe penetrations and pipe connections
- Retro-sealing of damaged pipe couplings and manhole ring joints
- Sealing of internal corners of components and transitions between components
- REACh-assessed exposure scenarios: periodical inhalation, application, long-term watercontact

APPLICATION ADVICE

Preparation of the substrate: See the data sheet "General Application Advice for manhole and sewer repair mortars". Damaged areas must be cut back at 45° (at least 3 cm deep) to improve adhesion to the substrate.

Mixing: The rapid-curing sealing mortar is prepared using ombran W ready-mix mortar and water. Small amounts to suit the defective site must be mixed by hand for 30 seconds until a firm plastic uniform mortar is obtained.

Mixing ratio: About 0.2 litres of water are needed for 1 kg of ombran W (dry mortar). Since ombran W is cement-bound, the amount of water needed may vary.

Processing: At water intrusions, press the stiffish mortar into the deepest part of the leak / defective area by hand (protective gloves must be worn) and apply pressure for about one to two minutes. Immediately after this, any excess material can usually be removed with a trowel or similar. When doing this, always work outwards from the middle, otherwise there is a risk of the not yet fully cured mortar becoming detached from the substrate.

Other instructions:

ombran W is a rigid mineral based product, therefore subsequently appearing cracks, settling and deformation due to construction work may result in further leaks. To achieve a durable sealing we recommend application of a coating made of a mortar from the ombran MHP-family.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|--|-----------------------|-------------|--|
| Mixing ratio | mass fractions | 1 : 0,2 | powder component : water |
| Maximum grain size | mm | approx. 1.2 | |
| Working time | seconds | approx. 60 | |
| Application conditions | °C | ≥ 5 ≤ 30 | air, substrate and material temperatures |
| Fresh mortar bulk density | kg/dm ³ | approx. 2.2 | |
| Consumption | kg/m ² /mm | | depending on substrate and application |
| Compressive strength (strength development) | N/mm ² | | |
| 1 h | | approx. 8 | |
| 24 h | | ≥ 16 | |
| 7 d | | ≥ 30 | |
| 28 d | | ≥ 30 | |
| Flexural strength (strength development) | N/mm ² | | |
| 1 h | | approx. 2.5 | |
| 24 h | | ≥ 4 | |
| 7 d | | ≥ 6 | |
| 28 d | | ≥ 6 | |

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

| | |
|--------------------------|--|
| colour shade | grey |
| Storage | Can be stored in original sealed packages at temperatures between 5°C and 25°C in dry conditions for at least 6 months. |
| equipment cleaning agent | water |
| packaging disposal | Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request. |
| delivery form | 15 kg tub |

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. [2100004369]