ombran R

Rapid setting mortarfor repair of wastewater structures

BE SURE. BUILD SURE.

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.

MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8 · 46238 Bottrop
Tel. +49 (0) 2041-101 0 · Fax: +49 (0) 2041-101 400
info@mc-bauchemie.de · www.mc-bauchemie.de

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)[1)]	kg/m²/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/dm³	approx. 2.2	
Compressive strength (strength development)	N/mm²		
1 h		approx. 15	
24 h		approx. 24	
7 d		approx. 33	
28 d		approx. 37	
Flexural strength (strength development)	N/mm²		
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

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