

## MARBOS Frame grouting mortar

**ZVM**

Hydraulisch erhärtender, zementärer Trockenmörtel  
M 10/DIN EN 998-2 (NM III/DIN V 18580)



### Application:



For machine filling of steel frames and prefabricated joints, without throw-holes or formwork, a water-hose-thickness opening is sufficient for application.

Can also be used for frames in exposed masonry without pollution.

- For wall
- For indoors and outdoors

### Properties:

- Hydraulically setting
- Easy to process
- High performance through machine processing
- Shrinkage compensated
- Good adhesion to the substrate
- Joints can be worked wet-on-wet
- No watering due to water retention capacity
- Not corrosion promoting
- Pumpable

### Material basis:

- Standardised/approved binders – DIN EN 197
- Selected aggregate - DIN EN 12620
- Additives to improve processing properties

### Technical data:

Largest aggregate size	0,5 mm
Colour	grey
Mixing water per 1 kg	ca. 0,24 Liter
Mixing water per 25 kg	ca. 6 Liter
Processing time	ca. 1 hour (+20 °C)
Processing temperature	+5 °C to +30 °C (Air, object and material temperature)
Compressive strength after 28 days	≥ 10 N/mm <sup>2</sup>
Building material class	A1 according to DIN EN 13501-1 (non-flammable)

### Substrate preparation:

The substrate must be firm, load-bearing, clean, frost-free and dry. Remove low-strength surface layers, dust, loose parts, formwork wax residues, paint residues and similar.

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<b>Processing:</b>	<p>Mix with clean, cold tap water until lump-free and homogeneous. Can be processed with commercially available mixing pumps such as PFT Ritmo. Water addition depends on machine type and required consistency.</p> <p>The frames must be properly and professionally installed and anchored. In order to ensure void-free filling, the mortar should be applied in sections, alternately and with simultaneous light hammering. Preferably, the hose opening should be positioned in the fresh mortar.</p>
<b>Post-treatment:</b>	Protect against drying out too quickly and the effects of weather such as sunshine, wind, driving rain and frost.
<b>Material consumption:</b>	<ul style="list-style-type: none"> <li>• Approx. 1.65 kg/l void</li> </ul>
<b>Packaging:</b>	<ul style="list-style-type: none"> <li>• 25 kg sack – 42 pieces per pallet</li> </ul>
<b>Storage:</b>	<ul style="list-style-type: none"> <li>• Protected from weather, cool and dry on wooden racks. Seal opened containers immediately.</li> <li>• Unopened containers if stored properly 12 months from date of manufacture.</li> <li>• Low chromate according to directive No. 1907/2006 (REACH) - GHS CODE ZP 1.</li> </ul>
<b>Disposal:</b>	Hardened residual product can be disposed of as building rubble under waste code 170904.
<b>Cleaning:</b>	Immediately clean containers, tools, machines, etc. with water. Cleaning is only possible by mechanical means once the product has hardened.
<b>Safety note:</b>	<ul style="list-style-type: none"> <li>• Keep out of the reach of children.</li> <li>• Additional information: see safety data sheet.</li> </ul>
<b>Note:</b>	<ul style="list-style-type: none"> <li>• The technical data refer to +20 °C and 50 % relative humidity. Lower temperatures lengthen, higher temperatures shorten the specified values.</li> <li>• Protect the setting product from sunlight, draughts, frost, driving rain and temperatures that are too high (&gt; 30 °C) or too low (&lt; 5 °C).</li> <li>• Do not stir setting mortar again with water.</li> <li>• For the work to be performed, the relevant recommendations, guidelines, standards and regulations as well as the generally accepted rules of technology must be taken into account.</li> <li>• In cases of doubt, trial plots shall be established.</li> </ul>
<b>Quality:</b>	<p>Subject to continuous internal and external monitoring.</p> <p>Production and FPC are certified according to DIN EN ISO 9001.</p>

During execution of work the relevant recommendations and guidelines, rules and standards, relevant technical instruction leaflets as well as the acknowledged rules of architecture and engineering have to be regarded. We do not have any influence on different weather/substrate and object conditions. Our written and spoken application/technological recommendations handed out to customers and craftsmen respectively are without obligation and do not constitute any contractual legal relationship and no lateral duty of a sales contract. All indications and recommendations of technical data sheets refer to standard purpose of use. With the publication of this technical instruction sheet, the previous ones lose their validity. This is a translation. Please refer in any case of misunderstanding the relevant German technical data sheet. Ed 06.02.2023