

MARBOS Natural stone mortar

NM

For masonry, jointing and repair of natural stone.
Hydraulically hardening, cementitious dry mortar mixed with trass.
M 10/DIN EN 998-2



Application: Universal applicable trass-cement mortar for masonry, jointing and repair of natural stone masonry especially of listed buildings and facilities.
For joint restoration using dry and wet spraying processes.
For discoloration-inhibiting preparation and laying of natural stone using the thick-bed process according to DIN 18352 (quartzite, marble, sand-stone, etc.), as well as tiles and plates, cotto, concrete blocks (e.g. terrazzo).

- For wall and floor
- For indoors and outdoors

Properties:

- Single-component
- Mineral
- Hydraulically setting
- Polymer-enhanced
- Resistant to discolouration
- High trass addition
- Good adhesion to the substrate
- Resistant to weather and frost

Material basis:

- Standardized/ approved binders - DIN EN 197
- Trassmehl – DIN 51043
- Selected aggregate - DIN EN 12620
- Additives and admixtures to improve the processing properties

Technical data:	Colour	grey
	Aggregate size	4 mm
	Mixing water per 1 kg	approx. 0,15 l
	Mixing water per 25 kg	approx. 3.8 l
	Working time	approx. 60 minutes
	Working temperature	+5 °C to 25 °C (Air-, Objekt- and Material)
	Compressive strength after 28 days	approx. 12 N/mm ²

Substrate preparation: The substrate must be solid, load-bearing and free of cracks.
Low-strength and/or non-load-bearing surface layers, extremely dense and/or smooth substrates, cement slurries, separating layers (e.g. dirt, dust, grease, oil, paint residues, etc.) must be removed and/or roughened (e.g. Blastrac process).
The stones must be frost-free and free of impurities.
In the case of highly absorbent stones and/or unfavorable environmental conditions, premature and excessive water extraction from the mortar must be limited by pre-wetting the stones or other suitable measures.

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Mixing/ Processing:	<p>In the dry spraying process: Before the spray application, prewet the cleaned and pretreated, sand-blasted surfaces or joints with water to achieve a matt-moist surface. MARBOS Natural stone mortar NM can be applied with commercially available dry spraying machines, ensure that the jointing is free of cavities.</p> <p>As mortar: Mix the mortar with the specified amount of water in a free-fall or continuous mixer. The mortar must be applied within ca. 2 hours (20°C, 50 % humidity).</p> <p>As laying mortar: For setting and laying using the thick-bed method, pre-slurry the substrate and laying materials with MARBOS Paving Binder PFB. The subsequent installation is performed respectively fresh in fresh. Tap the laying material well into the mortar bed and always lay in the full mortar bed. Cavities can lead to water accumulation, lime leaching and possibly frost damage. The layer thickness of 8 to 35 mm must be observed. Before the mortar bed starts to set, scrape out the joints deeply and cleanly, or fill the joints directly during installation with MARBOS Natural stone mortar NM. The paving or plate surfaces must not be restrained, adjoining walls, fixtures or similar must be provided with elastic joints, if necessary, movement joints must be applied in the surface. No other additives or aggregates may be added to the mortar.</p>	
Post-treatment:	Protect against drying out too quickly and weather influences such as sun, wind, draft and frost with suitable measures (e.g. with nets, jute sacks).	
Material consumption:	approx. 19.5 kg/m ² /cm coat thickness	
Packaging:	25 kg paper bag - 42 pieces per pallet	
Storage:	<ul style="list-style-type: none"> Protected from weather, cool and dry on wooden racks. Seal opened containers immediately. Unopened containers if stored properly 12 months from date of manufacture. Low chromate according to directive No. 1907/2006 (REACH) - GHS CODE ZP 1. 	
Waste management:	Hardened product remainders to be wasted as common rubble under code no. 17 09 04.	
Cleaning:	Immediately clean containers, tools, machines, etc. with water. Cleaning is only possible by mechanical means once the product has hardened.	
Safety note:	<ul style="list-style-type: none"> Keep out of the reach of children. Additional information: see safety data sheet. 	

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Notes:

- The technical data refer to +20 °C and 50 % relative humidity. Lower temperatures extend, higher temperatures shorten the specified values.
- Protect the setting product from sunlight, drafts, frost, driving rain and too high (> 25°C) and too low (< 5°C) temperatures.
- Do not stir already setting mortar again with water.
- To avoid color differences due to weathering and processing, use only whole containers and use material from one batch on contiguous surfaces.
- In the case of unusually highly absorbent, new or unusual substrates or installation materials, test areas must be created and the processing guidelines of the respective manufacturer must be observed.
- During execution of work the relevant recommendations and guidelines, rules and standards, as well as the acknowledged rules of architecture and engineering have to be regarded.
- We recommend in particular to observe the following regulations: DIN EN 998-2.
- In cases of doubt, create trial areas.

Quality control:

Subject to continuous internal and external monitoring.
Production and WPK are certified according to DIN EN ISO 9001.

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 05.01.2023