TWM M2.5

Trass mortar for laying cut stones

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Standard masonry mortar M2,5 acc. DIN EN 998-2
NM II acc. DIN 20000-412

- alkali content < 0.1%

APPLICATIONS

- for masonry made of natural stone and bricks
- for producing masonry mortar for all masonry blocks, particularly natural stones
- Bedding mortar for stonemasonry in the normal loading area
- particularly well suited for renovating old buildings, for properties under historical preservation and in modern biological residential construction

PROPERTIES

- mineral
- weather and frost resistant after hardening
- high stability
- high bonding strength
- good workability
- with trass to reduce the risk of lime efflorescence and discolouration on natural stones as well as for an optimised hardening process
- also available as a highly sulphate-resistant version on request

COMPOSITION

- highly hydraulic trass lime according to DIN EN 459-1
- graded stone aggregates in accordance with DIN 13139

SUBSTRATE

Properties/tests	■ Masonry and substrates must be firm, load-bearing, clean, dry, frost-free and free of paints or adhesion-reducing residues.
Pretreatment	■ The stones being laid are to be pre-wet depending on their absorbency.

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PROCESSING

Temperature	■ Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	■ When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency. ■ Using a flow mixer, gravity mixer or compulsory mixer, mix the dry mortar with clean water for no longer than 2 to 3 minutes to achieve the correct consistency. ■ When mixing by hand, take a clean container and add the amount of water specified in the technical data. Then sprinkle the dry mortar into the water. Use clean tapwater. ■ use a suitable agitator to mix the material until smooth and free of lumps. Leave to rest for a moment and then mix again, adding more water, if required, to achieve the right consistency for applying. ■ Do not mix with other products and/or other substances.
Applying	■ Apply mortar on the masonry in the required layer thickness with the trowel, set stones in place and skim off protruding mortar. Masonry joints must be flush-jointed. ■ Scratch out joints on visible masonry. Then clean the masonry immediately.
Processing / Working time	■ approx. 2 hours ■ The stated times apply for a temperature of +20°C and relative humidity of 65%. ■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	■ The fresh masonry work must be protected from unfavourable weather conditions such as very high and very low temperatures, frost, draughts, direct sunlight and driving rain (by covering with a plastic sheet, for example).
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ Trass-based mortars reduce the risk of lime efflorescence and prevent capillary water transport due to their density. Trass-based mortars harden slower to match the job. That makes it easier to relieve uneven tensions as desired and helps to prevent joints that are too hard, which are undesirable particularly with natural stone masonry and stonemasonry work.

PACKAGING

- 30 kg/sack
- loose in silo

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- consumption: depending on application
- yield: app. 20 l fresh mortar per 30 kg/sack
- yield: app. 650 l fresh mortar per t

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TECHNICAL DATA

Binder basis	Trass lime
Product type	Standard masonry mortar
Compressive strength (class)	M2.5 according to DIN EN 998-2
Mortar group	NM II acc. DIN 20000-412
Compressive strength	≥ 2.5 N/mm²
Grain size	0 – 2 mm; 0 – 4 mm
Water required	approx. 4.9 l/bag
Colour	grey

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety

- This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.
- Further information can be found in the safety data sheet at www.tubag.de.

GISCODE

- ZP1 (products containing cement, low-chromate)

Disposal

- Dispose of the material in accordance with the official regulations.
- Completely empty and recycle the packaging.
- Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concretewaste and concrete slurries).

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.