

LM 5/21

Lightweight masonry mortar

quick-mix
A trademark of **sievert**



Mineral lightweight masonry mortar with expanded clay

Lightweight Masonry Mortar M5 acc. EN 998-2
LM 21 according to DIN 20000-412

- excellent stability
- thermal conductivity: $\leq 0.18 \text{ W/(mK)}$
- compressive strength: $\geq 5 \text{ N/mm}^2$



APPLICATIONS

- especially suitable for laying high-performance thermally-insulating wall construction materials
- for filling gaps, recesses and openings
- for homogeneous masonry without thermal bridges in the mortar layer
- for improving the insulation values in masonry construction with regard to evidence of the statutory energy saving regulations

PROPERTIES

- thermally insulating
- no watering due to set water retention capacity
- good workability
- high yield
- high stability
- material-compliant with heat insulating bricks

COMPOSITION

- High-quality binder in accordance with DIN EN 197-1 and DIN EN 459-1
- expanded clay mineral lightweight aggregate according to EN 13055
- additives for regulating and improving workability and product properties

SUBSTRATE

- | | |
|-------------------------|--|
| Properties/tests | ■ The subsurface must be dry, load-bearing, clean, frost-free and suitable for the application of mortar. |
| Pretreatment | ■ Masonry units must be dry, absorbent, frost-free and free of any residues that inhibit bonding.
■ Highly absorbent masonry units must be wetted beforehand. |

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PROCESSING

Temperature	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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 manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water.■ 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	<ul style="list-style-type: none">■ Apply the desired layer thickness of mortar to the masonry using a trowel. Set the masonry units in place and scrape off any protruding mortar. Ensure full and flush-jointing of the units. All mortar pockets must be filled.■ The normal application thickness is approx. 15 mm.
Processing / Working time	<ul style="list-style-type: none">■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	<ul style="list-style-type: none">■ 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).■ After completion or interruption of the work, the masonry must be protected from driving rain and moisture by taking suitable measures, such as covering the copings.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.
Notes	<ul style="list-style-type: none">■ Using as a thin-bed mortar is not possible.

PACKAGING

- 20 kg/sack
- loose in silo

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- consumption: depending on stone format

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TECHNICAL DATA

Product type	Lightweight Masonry Mortar
Compressive strength class	M5 according to DIN EN 998-2
Mortar group	LM 21 according to DIN 20000-412
Grain	0 – 4 mm
Water requirement	approx. 10,0 l per 20 kg/sack
Bond strength / Adhesive shear strength	≥ 0.08 N/mm ²
Chloride content	≤ 0.1 % by weight
Fire behaviour	A1 (non-flammable) in accordance with EN 13501
Water vapour permeability μ	5/20 (table value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=50%	≤ 0.16 W/(mK) (tabular value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=90%	≤ 0.17 W/(mK) (tabular value EN 1745)
Durability (frost resistance)	Based on experience, when used properly, the product is suitable for use in moderately aggressive environments in accordance with EN 998-2, Annex B.

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	<ul style="list-style-type: none">■ 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.■ Follow further instructions in the safety data sheet.
GISCODE	<ul style="list-style-type: none">■ ZP1 (products containing cement, low-chromate)
Disposal	<ul style="list-style-type: none">■ 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 (concreteste 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.