

akurit QM

Expanding mortar

expanding mortar for packing components above

Standard masonry mortar M10 acc. DIN EN 998-2

NM III in acc. with DIN 20000-412

- can be used with plastering machine for easy filling
- highly expanding (approx. 10 % volume increase)
- high compressive strength



Applications

- for positive locking packing of vertical timber walls and prefabricated components
- for filling wall and ceiling break-throughs in masonry and concrete
- not suitable for producing masonry
- for external and interior use

Properties

- water-repellent
- good stability under load
- high strength

Composition

- Grey cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- Additives for hydrophobising
- additives for regulating and improving workability and product properties

Substrate

Suitable substrates

- Joint between concrete slab and timber stud wall in prefabrication construction
- normal concrete
- Mixed masonry
- Natural stone masonry

Condition / Testing

- The subsurface must be dry, load-bearing, clean, frost-free and suitable for the application of mortar.

Pretreatment

- In case of highly absorbent substrates, high temperatures and/or strong wind, the substrate must be pre-wetted or primed.

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 / Preparing / Processing

- 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 develop for a moment and then mix again.
- Do not mix with other products and/or other substances.
- When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency.
- If the work is interrupted for longer periods, then clean the plastering machine and mortar hoses.

Applying / Processing / Assembling

- Introduce fresh mortar as quickly as possible.
- Do not exceed application thickness of 10 mm maximum.
- Remove mortar bulging out at the sides and smooth the joint.

Processing time

- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
- approx. 45 minutes at 20°C and 65 % rel. humidity

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).
- 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.
- The drying and hardening process will be slowed down by low temperatures and/or high air humidity and accelerated by high temperatures and/or low air humidity.

Tool cleaning

- Clean all tools and equipment with water immediately after use.

Notes

- The masonry must not be exposed to constant moisture penetration and frost.
- When using the product for the first time, please request our advisory service.

Packaging

- 25 kg/sack

Storage

- Store sacks appropriately and in dry conditions on pallets.
- can be stored in sealed original container/bag for at least 6 months from manufacturing date

Quantity required / Yield

- yield: app. 0,64 l/kg
- yield: app. 16 l fresh mortar per 25-kg-Bag

Technical Data

Product type	Standard masonry mortar
Compressive strength	M10 according to DIN EN 998-2
Mortar group	NM III in acc. with DIN 20000-412
Grain	0 – 1,2 mm
Water requirement	approx. 3.8 l per 25 kg/sack
Bond strength / Adhesive shear strength	≥ 0.10 N/mm ²
Chloride content	≤ 0.1 % by weight
Fire behaviour	A1 (non-flammable) in accordance with EN 13501
Water vapour permeability μ	15/35 (table value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat}$ for P=50%	≤ 0.82 W/(mK) (table value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat}$ for P=90%	≤ 0.89 W/(mK) (table 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

- 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.
- Specifications regarding the classification and labelling of the product can be found in the safety data sheet at www.quick-mix.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 (concreteste and concrete slurries).

General notes

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.