UNI-M

Universal repair mortar

quick-mix
A trademark of sievert

Cement mortar with high compressive strength

Standard masonry mortar M15 acc. EN 998-2
NM III according to DIN 20000-412
standard plastering mortar GP CS IV acc. DIN EN 998-1

APPLICATIONS

- for masonry, plastering and repairs
- for non-structurally critical concrete work
- Levelling plaster and wall-base plaster
- as base plaster for tiles and heavy wall coverings
- not suitable for high-performance thermally-insulating masonry
- Rough cast on masonry
- Fixing and bedding mortar (thick-bed mortar) for tiles and slabs
- Masonry mortar for structurally highly stressed masonry
- for setting kerbstones, posts and the like
- for setting bath tubs in the plumbing sector, filling doorframes
- for mortaring pipes and pipelines
- Repair concrete for concrete areas, stair steps etc. in structurally non-relevant areas
- not suitable as concrete for building elements with structurally relevant requirements
- as a screed for smaller areas up to max. 3 m²
- for indoor and outdoor applications

PROPERTIES

- versatile use
- mineral
- high strength
- frost-resistant and water-resistant after hardening
- highly moisture resistant
- behaviour in fire A1 - non-flammable

COMPOSITION

- Grey cement in accordance with DIN EN 197-1
- graded stone aggregates in accordance with DIN 13139
- additives for regulating and improving workability and product properties
- quality-monitored

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SUBSTRATE

Suitable substrates	■ normal concrete ■ concrete block masonry ■ normal and heavy masonry ■ Mixed masonry
Properties/tests	■ The substrate must be dry, clean, load-bearing, dust-free, absorbent and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.
Pretreatment	■ Highly absorbent substrates should be wetted in good time, days before if need be. ■ Prepare concrete substrates with a suitable mineral bonding bridge using the combed bed method.

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	■ The material is suitable only for processing by hand. ■ Not suitable for processing with plastering machines. ■ 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. ■ 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. ■ Do not mix with other products and/or other substances.
Applying	■ Apply material in a layer thickness of 10 - 15 mm when applying in one layer. ■ The minimum layer thickness as a base plaster is 10 mm. ■ On highly or varyingly absorbent substrates, apply two layers, wet in wet. ■ On mixed masonry or widely changing plaster thicknesses or plaster thicknesses > 15 mm, work in several layers. ■ If the plaster is applied in layers, then allow an intermediate standing time of one day per mm of plaster thickness before applying the next layer. ■ Always thoroughly roughen the entire surface of the intermediate layers once the surface has hardened sufficiently. Use a suitable tool such as a lattice plane.
Processing / Working time	■ approx. 2 hours ■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied. ■ The stated times apply for a temperature of +20°C and relative humidity of 65%.
Drying / Hardening	■ Protect from drying out too quickly as a result of sun, wind or draughts.
Subsequent coating / Suitability for coating	■ Suitable as a base plaster beneath ceramic tiles and panels with a weight per unit area of up to 50 kg/m², including adhesive. ■ All types of mineral finishing plaster and organically bound plasters, such as silicate, silicon resin or emulsion plasters, may be applied as finish plaster. ■ A coat of silicate, silicone resin or emulsion paint is possible as a base and final coat.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ When using as a masonry mortar, the relevant standards must be observed. ■ In interior rooms, start up the heating system slowly to increase the room temperature gradually. ■ Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.

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PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.
- If stored in its original packaging, the product will keep for at least 12 months from the date of manufacture.

QUANTITY REQUIRED / YIELD

- yield: app. 16 l fresh mortar per 25 kg/sack
- The quantity required depends on the substrate and method of application. Determine the exact quantities required by carrying out a trial on site.

TECHNICAL DATA

Product type	Standard masonry mortar
Compressive strength class	M 15 according to DIN EN 998-2
Mortar group	NM III according to DIN 20000-412
Grain	0 – 4 mm
Water requirement	approx. 4,6 l per 25 kg/sack
Bond strength / Adhesive shear strength	≥ 0.11 N/mm²
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)	On the basis of available experience, suitable for highly 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.

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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. ■ Follow further instructions in the safety data sheet.
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.