

Z 01

Cement mortar

Fine cement mortar for wall surfaces subject to particularly heavy loads

Standard masonry mortar M10 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 producing base joints and wall surfaces in areas in contact with the ground
- for particularly impact-resistant, durable and weatherproof plaster areas
- for external and interior use

PROPERTIES

- universal use
- mineral
- adjusted water retention properties
- excellent adhesion
- good workability
- weather and frost resistant after hardening
- high impact resistance

COMPOSITION

- high-quality binders according to DIN EN 197-1
- graded stone aggregates in accordance with DIN 13139
- additives for regulating and improving workability and product properties

SUBSTRATE

Properties/tests	<ul style="list-style-type: none">■ The substrate must be dry, load-bearing, absorbent, free of dust, formwork oil or other release agents.■ For assessing the plaster primer, VOB/C DIN 18350, Section 3, DIN EN 13914-1/13914-2 as well as the plaster standard DIN 18550-1/18550-2 should be observed.
Pretreatment	<ul style="list-style-type: none">■ Remove loose particles, dust and adhesion-depleting contaminants.■ Pre-wet or pre-spray plaster base before applying the plaster.■ Prepare concrete substrates with a suitable mineral bonding bridge using the combed bed method.■ Pre-treat highly absorbent plaster bases with a suitable absorption barrier.■ Pre-wet if necessary depending on absorbency when laying bricks.

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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 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.■ Mix material homogeneously and without lumps with a suitable agitator. Stir again if necessary by adding more water and adjust to consistency suitable for processing.■ Do not mix with other products and/or other substances.
Applying	<ul style="list-style-type: none">■ Plastering:<ul style="list-style-type: none">■ Apply material evenly on the prepared plaster base and smooth off the fresh plaster surface with a suitable tool to make it perpendicular and flush.■ Brick laying:<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.
Processing / Working time	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.

PACKAGING

- 25 kg/sack
- 40 kg/bag

STORAGE

- Store sacks appropriately and in dry conditions on pallets.
- Low-chromate for at least 12 months from date of manufacture if stored dry and properly in original sealed package.

QUANTITY REQUIRED / YIELD

- consumption:
 - mortar: approx. 32 kg/m² for 2 solid DF bricks
 - plaster: approx. 15 kg/m² per 10 mm thickness
- yield: app. 17 l fresh mortar per 25 kg/sack
- yield: app. 27 l fresh mortar per 40 kg/bag

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TECHNICAL DATA

Product type	Standard masonry mortar
Compressive strength class	M10 according to DIN EN 998-2
Mortar group	NM III according to DIN 20000-412
Compressive strength	≥ 10 N/mm ²
Grain	0 – 1 mm
Water requirement	approx. 3.8 l per 25 kg/sack, approx. 6.0 l per 40 kg/bag
Processing temperature	+5°C to +30°C
Processing time	approx. 2 hours

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 (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.