

Mineral lightweight mortar with rapid hardening properties

Lightweight plaster mortar LW CS II acc. EN 998-1

- suitable for machine application



APPLICATIONS

- for filling gaps, recesses and openings

PROPERTIES

- excellent stability under load
- high mortar thicknesses possible in one spraying application
- quick setting and hardening

COMPOSITION

- Grey cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- finely fractionated stone aggregate
- expanded clay mineral lightweight aggregate according to EN 13055
- additives for regulating and improving workability and product properties

SUBSTRATE

Suitable substrates	■ Not suitable for subsurfaces containing gypsum
Reviews	■ The load-bearing capacity of the substrate must be checked carefully. ■ The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
Pretreatment	■ On smooth, non or low absorbent substrates, a suitable, mineral bonding bridge is to be applied.



PROCESSING

Mixing / Preparation / Processing	<ul style="list-style-type: none"> ■ Suitable for processing by hand, or with conventional plastering machines. ■ When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency. ■ Keep work interruptions to a maximum duration of 15 to 20 minutes. ■ If the work is interrupted for longer periods, then clean the plastering machine and mortar hoses. ■ 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.
Processing / Working time	<ul style="list-style-type: none"> ■ approx. 10-20 minutes ■ 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.
Applying	<ul style="list-style-type: none"> ■ Apply material approx. 3 to 7 cm per spraying process depending on the absorbency of the substrate. After an interim rest time of approx. 20 to 30 minutes, another layer can be applied.
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.
Subsequent coating / Suitability for coating	<ul style="list-style-type: none"> ■ All types of mineral finishing plaster and organically bound plasters, such as silicate, silicon resin or emulsion plasters, may be applied as finish plaster.
Drying / Hardening	<ul style="list-style-type: none"> ■ Required drying time: at least 2 days per cm of layer thickness
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"> ■ When using the product for the first time, please request our advisory service.

PACKAGING

- 20 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 3 months from the date of manufacture.

QUANTITY REQUIRED / YIELD

- consumption: approx. 8 kg/m² per 10 mm thickness of plaster
- yield: app. 24 l fresh mortar per 20 kg/sack



TECHNICAL DATA

Product type	Lightweight plaster mortar LW
Category	CS II
Compressive strength	approx. 2.5 N/mm ²
Grain	0 – 3 mm
Water requirement	approx. 9,0 l per 20 kg/sack
Set mortar bulk density	approx. 0.9 kg/dm ³
Fire behaviour	A1
Adhesive tensile strength	≥ 0.08 N/mm ²
Capillary water absorption	W _{c,0} according to EN 998-1
Water vapour permeability μ	5/20 (table value EN 1745)
Thermal conductivity λ_{10,dry,mat.} for P=50%	≤ 0.21 W/(mK)
Thermal conductivity λ_{10,dry,mat.} for P=90%	≤ 0,23 W/(mK)

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.