MEP X-tra

polymer-modified mineral lime-cement lightweight plaster

as a lightweight plaster system for accepting finishing plasters, top coats, coatings or paints
Lightweight plaster mortar LW CS II acc. EN 998-1
- water-repellent
- with mineral lightweight aggregate
- colour: natural white

Applications

- as a lightweight plaster system to accept finishing plasters, top coats, coatings or paints
- as a lightweight render system on all types of masonry and concrete
- with full-surface reinforcement fabric insert as a lightweight render system on highly heat-insulating masonry
- suitable for wall-base areas
- suitable as a lightweight underlay for tile coverings up to a weight per unit area of 25 kg/m²
- for external and interior use

Composition

- cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- graded stone aggregates in accordance with DIN 13139
- Mineral lightweight aggregates
- additives for regulating and improving workability and product properties

Properties

- Force-fit bond between reinforcement fabric and MEP X-tra
- Time-saving, as plaster bonding bridge, lightweight plaster and reinforcement plaster are all in one
- Very good substrate adhesion
- excellent stability under load
- low-stress hardening characteristics
- behaviour in fire A1 - non-flammable
- vapour-permeable
- smooth and easy to process
- uniform and attractive felt finish

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Substrate

Suitable substrates

- vertically perforated bricks
- Lightweight vertical coring bricks, unfilled or with insulating material filling
- Aerated concrete
- Lightweight concrete, pumice and expanded clay
- sand-lime bricks
- normal concrete

Condition / Testing

- 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.
- The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
- Existing base plaster layers must have been roughened and have completely hardened.

Pretreatment

- On highly absorbent plaster primer, apply fresh mortar wet-on-wet in 2 layers or, if necessary, pre-treat with akurit GAB absorption barrier.
- Always wait until the specified standing times have elapsed before applying subsequent layers.
- For smooth, non-absorbent substrates with a strip width of > 60 cm, such as XPS-R insulation boards or concrete, apply MEP X-tra as an adhesive bridge in a pronounced comb bed.

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

- Suitable for processing by hand, or with conventional plastering machines.
- 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.
- 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 / Processing / Assembling

- Apply material in layer thicknesses of 10 (interior) to 15 mm (exterior).
- For single-layer application, apply material in total plaster thickness, level with H-carthage toothed and embed reinforcing fabric over the entire surface. The reinforcing fabric must be laid close to the surface.
- Cover the reinforcement mesh, z. B. akurit GM, mesh size at least 6 x 6 mm, provide sufficient (approx. 5 mm) so that the mesh is not exposed by rabbiting or similar.
- For multi-layer application, apply approx. 2/3 of the total plaster thickness, embed reinforcing fabric over the entire surface and apply the remaining plaster.
- In case of multi-layer application, roughen the last layer and complete with MEP X-tra incl. inserted reinforcement fabric after sufficient standing time (at least 1 day per mm render thickness).
- The full-surface reinforcement fabric must be completely covered with MEP X-tra even after rabbiting / recutting. The joints must overlap by at least 100 mm.
- For building openings, carry out additional diagonal corner reinforcements.

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Processing time
- 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
- Before applying the finish plaster, you must wait at least 1 day per mm of plaster thickness.
- To prevent the plaster from drying out too quickly at higher temperatures, the plastered area should be kept moist for at least three days.
- If the weather conditions are unfavourable (e.g. driving rain, frost, strong sunlight and/or winds), then suitable protection measures must be taken, particularly in the case of freshly coated surfaces.

Subsequent coating / workability
- All types of mineral finishing plaster and organically bound plasters, such as silicate, silicon resin or emulsion plasters, may be applied as finish plaster.
- In the case of indoor surfaces, a suitable coating may be applied.
- Suitable as a base plaster beneath ceramic tiles and panels with a weight per unit area of up to 25 kg/m², including adhesive.
- Additional measures for pretreating the substrate may be necessary, depending on the subsequent coating.

Notes
- When using the product for the first time, please request our advisory service.
- In the plinth area, either a plinth render, e.g. akurit SLP Sockelleichtputz, akurit SLP-it. Sockelleichtputz, akurit UNI-SD Universal Sockel-Dicht or akurit MEP X-tra (up to a maximum of 10 cm below the top edge of the ground). Before filling the ground, seal the plaster surfaces accordingly.
- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.
- If tiles are to be laid on the surface, then strike off the plaster surface evenly and cleanly using a rod/plasterer's float. Do not smooth or felt the surface of the plaster.
- Separate any neighbouring components from the plastered area.
- Any sintered skin on the surface must be removed after sufficient curing.
- In order to create perpendicular and flush corners and joints for the respective application area, use suitable plaster profiles. When selecting plaster bases and profiles, please observe DIN EN 13658 as well as the data sheet "Data sheet for planning and application of metallic plaster profiles outdoors and indoors", issued by the European trade association for plaster profile manufacturers.

Packaging

- 25 kg/sack
- loose in silo

Storage

- Store dry and as per instructions.
- If stored in its original packaging, the product will keep for at least 12 months from the date of manufacture.
- can be stored in sealed original container/bag for at least 6 months from manufacturing date

Quantity required / Yield

- consumption: approx. 9 kg/m² per 10 mm plaster thickness
- yield: app. 27 l fresh mortar per 25-kg-Bag

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Technical Data

Product type	Lightweight plaster mortar LW
Category	CS II
Compressive strength	approx. 3.5 N/mm²
Grain	0 – 1 mm
Water requirement	approx. 11.0 l per 25 kg/sack
Set mortar bulk density	approx. 0.9 kg/dm³
Dynamic Young's modulus (E)	ca. 2000 N/mm²
Adhesive tensile strength	(on concrete) ≥ 0.1 N/mm²
Capillary water absorption	W_c2 according to EN 998-1
Water vapour permeability μ	5/20 (table value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=50%	≤ 0.21 W/(mK)
Thermal conductivity $\lambda_{10,dry,mat.}$ 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

- 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)

Disposel

- 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 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.