

akurit WDP

Insulating plaster

insulating plaster with organic EPS lightweight aggregate

T insulating plastering mortar CS I acc. EN 998-1

- low tension
- non-flammable A2-s1, d0 according to EN-13501-1



Applications

- as auxiliary insulation in outdoor area
- as levelling plaster for uneven surfaces
- for decoupling plaster surface from substrate

Properties

- good thermal insulation properties
- high yield
- vapour-permeable
- suitable for machine application

Composition

- Grey cement in accordance with DIN EN 197-1
- organic lightweight aggregates (EPS)

Substrate

Suitable substrates

- light and highly heat-insulating substrates, e.g. lightweight bricks, aerated concrete and lightweight concrete
- normal and heavy masonry
- normal concrete
- sand-lime bricks
- Mixed masonry

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.

Pretreatment

- Prepare insufficiently load-bearing substrates with akurit WEL Welnet insulating plaster base mat. The plaster base is anchored in the load-bearing substrate with at least 8 anchors per m².
- Pre-treat highly or unevenly absorbent substrates with AKURIT ZVP pre-spray cement mortar with approx. 60 % coverage. Alternatively, if the substrate is sufficiently firm, pre-spray the whole areas approx. 10 mm with AKURIT MEP lime cement plaster and comb horizontally once it has stiffened.
- On smooth, non or low-absorbent substrates, apply a bonding bridge, e.g. AKURIT UNI-H or UNI-FS approx. 6 mm thick, disperse horizontally with the notched trowel (6 notches) and create a pronounced combed bed. The cover in the grooves should be at least 2 mm in this case. Once sufficiently stiffened, score with the plaster comb / coarse brush to prevent a sinter skin from forming.

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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

- For finishing by machine, use a suitable plastering machine with insulating plaster equipment. When doing so, the recommendations of the respective machine manufacturer must be observed.
- 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 develop for a moment and then mix again.
- Do not mix with other products and/or other substances.

Applying / Processing / Assembling

- The total application thickness is 20 to 100 mm.
- Plaster thicknesses > 60 mm are to be applied in several layers.
- 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.
- The rest time of the first layer should not exceed three days. Altogether, a rest time of one day per 10 mm plaster thickness is to be maintained.
- 1 day per 10 mm plaster thickness is to be maintained as the total rest time, but at least 7 days.

Processing time

- Approx. 2 hours at 20°C and 65% relative air humidity
- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.

Drying / Hardening

- 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

- Before applying a thin layer of finishing plaster, apply a minimum 8 mm thick reinforcement layer of akurit UNI-FS universal fibre filler plaster or akurit KSN natural lime filler (interior only) with full-surface reinforcement of akurit GM reinforcement fabric medium. Lay the fabric in the upper half of the reinforcement layer. In the area of building openings, place reinforcement arrows under the reinforcement layer beforehand.
- Mineral facing plasters, silicate and silicone resin plasters are suitable as finish coats.
- Painting with AKURIT FSI silicate, FSH silicone resin finish or FHC HYDROCON silicate finish as a primer and top coat is possible.
- AKURIT KP scratch-finish plaster can be applied directly onto the combed insulating plaster without a filler layer after a rest time of at least 7 days.

Tool cleaning

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

Notes

- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.
- For plaster thicknesses > 60 mm we recommend using the AKURIT WEL Welnet insulating plaster base mat.

Packaging

- 75 l/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

- consumption: approx. 12,5 l/m² per 10 cm layer thickness
- yield: app. 75 l fresh mortar per 15-kg-Bag

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Technical Data

Product type	T insulating plastering mortar
Category	CS I
Fire behaviour	A2-s1, d0 according to EN 13501
Water requirement	ca. 12,0 l per 75 l/sack
Compressive strength	approx. 0.4 N/mm ²
Capillary water absorption	W _c 1 (in accordance with EN 998-1)
Water vapour permeability μ	≤ 15
Thermal conductivity (class)	T1
Rated value of the thermal conductivity λ	0,07 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)

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 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. 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.