

# akurit SK-MI

Mineral finishing and adhesive mortar

## lightweight adhesive and reinforcement mortar for mineral insulation panels

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

- with mineral lightweight aggregate
- low tension
- high-yield
- colour: natural white



## Applications

- specially for mineral insulation panels in WDVS, interior insulation, basement ceiling and underground garage insulation
- reinforcement layer on TRI-O-THERM M

## Properties

- mineral
- high yield
- high bonding strength
- easy manual and mechanical processing
- low stress and low shrinkage
- UV and weather resistant
- fibre-reinforced

## Composition

- cement in accordance with DIN EN 197-1
- graded stone aggregates in accordance with DIN 13139
- mineral lightweight aggregates according to DIN EN 13055
- additives for regulating and improving workability and product properties

## Substrate

### Suitable substrates

- All types of masonry
- Concrete
- Lime cement plasters and cement plasters
- organically bonded finish coats, synthetic resin plasters
- Intact, load-bearing wall or façade paintwork

### Condition / Testing

- The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
- 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 load-bearing capacity, particularly of old plaster and old paintwork, must be properly tested (e.g. by carrying out a pull-out test or cross-cut test).

### Pretreatment

- Non-load-bearing plaster and paint, loose parts, dust and dirt must be removed.

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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

- 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 develop for a moment and then mix again.
- Do not mix with other products and/or other substances.

### Applying / Processing / Assembling

- Apply adhesive mortar all around as beading and apply several lumps of mortar onto the centre of the insulation panels. Apply enough mortar so that at least 70 % of the panel surface is covered in adhesive mortar once the panels have been fixed. When bonding the mineral insulation panel as interior insulation, it must be bonded over the whole area. For level substrates the adhesive mortar can be combed on evenly onto the insulation panels with a notched trowel with notches 10x10x10 mm. Drying time depending on weather conditions at least 1 day.
- Apply as filling and reinforcement mortar in layer thicknesses of approx. 4 mm onto the mineral insulation panels and comb on with a notched applicator with notches 8x8x8 mm. Insert AKURIT GF reinforcement mesh, fine, into the fresh mortar, press in lightly with a trowel and smooth the surface. Allow mesh strips to overlap by at least 10 cm. Rest time before adding coats: at least 1 day per mm of layer thickness, depending on the hardening conditions.

### Processing time

- Approx. 1 - 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

- 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.

### Tool cleaning

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

### Notes

- Take into consideration the respective system permissions when using the product in thermal insulation composite systems.
- Do not allow adhesive mortar to swell in the panel joints. Remove immediately if necessary.
- For more execution information about processing the product in the ETICS, see brochure "ETICS - basic principles and planning".

## Packaging

- 20 kg/sack
- loose in silo

## 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. 0.9 kg/m<sup>2</sup> per 1 mm application thickness
- yield: app. 22 l fresh mortar per 20-kg-Bag
- yield: app. 1100 l fresh mortar per t

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## Technical Data

<b>Product type</b>	Lightweight plaster mortar LW
<b>Category</b>	CS II
<b>Grain</b>	0 – 0,5 mm
<b>Water requirement</b>	approx. 6.5 l per 20 kg/sack
<b>Set mortar bulk density</b>	approx. 1.0 kg/dm <sup>3</sup>
<b>Compressive strength</b>	1.5 - 5 N/mm <sup>2</sup>
<b>Fire behaviour</b>	A2
<b>Adhesive tensile strength</b>	≥ 0.08 N/mm <sup>2</sup>
<b>Capillary water absorption</b>	W <sub>c</sub> 2 according to EN 998-1
<b>Water vapour permeability μ</b>	5/20 (table value EN 1745)
<b>Thermal conductivity λ<sub>10,dry,mat.</sub> for P=50%</b>	≤ 0.25 W/(mK)
<b>Thermal conductivity λ<sub>10,dry,mat.</sub> for P=90%</b>	≤ 0,27 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 (concreteste 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.