

akurit SK-R

Brick slip finishing and adhesive mortar

brick slip adhesive and reinforcing mortar

standard plastering mortar GP CS IV acc. EN 998-1

- water-repellent
- colour: grey



Applications

- for AKURIT thermal insulation systems
- for adhering and reinforcing insulation panels
- for adhering brick slip in system constructions
- for coating perimeter insulation panels in the base area
- for external and interior use

Properties

- meets the requirements for hydraulic setting thin bed mortars of class C1 E according to DIN EN 12004
- "3in1-function": Bonding and reinforcing of the insulation boards and laying of slips with one product
- mineral
- high bonding strength
- low stress and low shrinkage
- high stability
- good workability
- UV and weather resistant
- fibre-reinforced

Composition

- cement in accordance with DIN EN 197-1
- graded stone aggregates in accordance with DIN 13139
- 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

- 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.
- 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

- **Bonding insulation panels:** The adhesive is applied in the combed bed over the whole area on level substrates or using the spot bead method. The adhesive area must be at least 60 %. The stuck-on insulation panels are further processed after a sufficient rest time once the mortar has hardened, depending on weather conditions, at the earliest after approx. 2 - 3 days.
- **Reinforcement of insulation panels:** Apply reinforcement mortar with suitable tools in layer thickness according to ETICS approval and insert reinforcement mesh. Before reworking again, observe a rest time of at least 7 days, depending on the weather conditions.
- **Inlaying reinforcement mesh:** Pull the reinforcement mesh tight and inlay crease-free in the top third of the plaster layer. The individual fabric strips must overlap one another by approx. 10 cm and be covered with reinforcement mortar.
- **Bonding the brick slips:** Once the reinforcement layer has hardened, rest time at least 7 days, the ceramic cladding can be applied. These are bonded without cavities using the combined method (buttering-floating method). An approx. 3 to 5 mm thick bed of adhesive mortar is applied onto the hardened reinforcement layer with a notched trowel (10x10x10 mm), into which the covering is inserted within 10 minutes. An approx. 1 mm thick scratch filler is applied to the back of the covering before being inserted into the fresh mortar bed and pressed down. Once the cladding has set, the layer thickness of the adhesive mortar must be at least 3 mm and maximum 5 mm. The joints are to be scraped out sufficiently deep, at least in the cladding thickness, neatly on the sides.

Processing time

- Approximately 1 hour
- 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".
- When used as a coating in the base area, the reinforcement layer must be encapsulated with additional moisture protection up to 5 cm above the later top edge of the ground.

Packaging

- 25 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.

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Quantity required / Yield

- consumption:
 - approx. 5.6 kg/m² for adhering
 - approx. 7.0 kg/m² per 5 mm plaster thickness to reinforcement
- yield: app. 22 l fresh mortar per 25-kg-Bag
- **for gluing the insulation panels:**
 - approx. 5.6 kg/m² with 40% adhesive area and 10 mm layer thickness
 - approx. 8.4 kg/m² with 60% adhesive area and 10 mm layer thickness
 - approx. 7 kg/m² for full-surface bonding and 5 mm layer thickness
- **for bonding strappy clothing:**
 - approx. 5.6 kg/m² for full-surface, void-free bonding and 4 mm layer thickness
- **for surface reinforcement/coating:**
 - approx. 7 kg/m² per 5 mm layer thickness
- The amount consumed depends on the nature of the substrate, insulation material and covering as well as the processing and can vary in practice. More precise values can be determined by testing areas on the object.

Technical Data

Product type	standard plastering mortar GP
Category	CS IV
Grain	0 – 1 mm
Water requirement	approx. 6.0 l per 25 kg/sack
Set mortar bulk density	approx. 1.4 kg/dm ³
Compressive strength	≥ 6 N/mm ²
Fire behaviour	A2
Adhesive tensile strength	≥ 0.08 N/mm ²
Capillary water absorption	W _c 2 according to EN 998-1
Water vapour permeability μ	15/35 (table value EN 1745)
Thermal conductivity λ_{10,dry,mat.} for P=50%	≤ 0.61 W/(mK)
Thermal conductivity λ_{10,dry,mat.} for P=90%	≤ 0,66 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)

Dispose!

- 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.