

# akurit SK-N

Natural stone adhesive mortar

## adhesive mortar for natural stone/slate slabs in WDVS

C2 TE acc. DIN EN 12004

- high bonding strength
- colour: grey



## Applications

- for gluing the insulation boards and for placing the natural stone slate boards on the reinforcement layer in the akurit external thermal insulation composite system akurit system EPS N according to general type approval Z-33.46-1598
- For bonding brick slips to plastered and fabric-reinforced brickwork and concrete
- for external and interior use

## Properties

- mineral
- high stability
- good workability
- UV and weather resistant

## 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

### General

- ETICS superstructures according to system approval
- Substrates according to akurit brick slips recommendations

### 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

- Remove loose particles, dust and adhesion-depleting contaminants.

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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

- 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.
- After the reinforcement layer has cured (minimum 7 days), the ceramic cladding can be applied. Bonding is carried out without voids using the combined method (buttering-floating method). On the hardened reinforcement layer, a toothed trowel (10x10x10 mm) is used to prepare a bed of adhesive mortar approx. 3 to 5 mm thick, into which the covering is laid within 10 minutes. An approx. 1 mm thick scratch coat is applied to the back of the covering before it is laid into the fresh mortar bed and pressed on. After the cladding has been applied, the layer thickness of the adhesive mortar must be at least 3 mm and a maximum of 5 mm. The joints must be scraped out sufficiently deep, at least to the thickness of the cladding.

### 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

- When used in ETICS, the specifications of the General Construction Type Approval Z-33.46-1598 must be observed.
- For more execution information about processing the product in the ETICS, see brochure "ETICS - basic principles and planning".

## Packaging

- 25 kg/sack

## 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.

## Quantity required / Yield

- consumption: approx. 1.3 kg/m<sup>2</sup> per 1 mm application thickness
- yield: app. 19 l fresh mortar per 25-kg-Bag

## Technical Data

<b>Product type</b>	C2 TE
<b>Water requirement</b>	approx. 6.0 l/sack
<b>Fire behaviour</b>	E
<b>Bond strength</b>	Adhesive tensile strength after dry storage $\geq 1,0$ N/mm <sup>2</sup>
<b>Durability against exposure to freeze/thaw cycles</b>	Adhesive tensile strength after freeze/thaw storage $\geq 1,0$ N/mm <sup>2</sup>
<b>Durability against the effects of climate / warm storage</b>	Adhesive tensile strength after warm storage $\geq 1,0$ N/mm <sup>2</sup>
<b>Durability against the effects of climate / warm storage</b>	Adhesive tensile strength after water storage $\geq 1,0$ N/mm <sup>2</sup>

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.

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## 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. 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.