

akurit KM

Adhesive mortar

adhesive mortar with high starting adhesion

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

- colour: grey



Applications

- for insulation panels in WDVS, on basement ceilings and in base joint and perimeter areas
- pure adhesive mortar for insulation panels in AKURIT thermal insulation composite systems
- adhesive mortar for basement ceiling insulation panels made of EPS, mineral wool and polyurethane
- for fixing of extruded PS boards for perimeter insulation
- not suitable for bonding mineral insulation panels

Properties

- mineral
- high bonding strength
- UV and weather resistant
- easy manual and mechanical processing

Composition

- cement in accordance with DIN EN 197-1
- graded stone aggregates in accordance with DIN 13139
- additives for improving bonding to the subsurface
- additives for regulating and improving workability and product properties

Substrate

Suitable substrates

- Concrete
- All types of masonry
- Lime cement plasters and cement plasters
- intact, load-bearing synthetic resin paints and plasters

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 substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.
- 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

- Separating surface layers, such as cement films, formwork release oil or sinter skins must be removed using suitable methods.
- Smooth concrete surfaces are to be mechanically roughened for better adhesion purposes.
- Non-load-bearing coatings must be completely removed.
- Rough up smooth XPS insulation panels.

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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 basement and acoustic ceiling panels: to bond over the whole area on even substrates in the combed bed method, apply adhesive mortar with a notched trowel on the back of the panel. When doing so, only pre-fill as many panels as can be processed during the adhesive working time (approx. 10 minutes). Afterwards press the ceiling panels onto the matt damp substrate and immerse. Support the ceiling panels if necessary until the adhesive has dried out. If an overall weight of the insulation incl. adhesive of 15 kg/m² is exceeded, the AKURIT DDS-Z ceiling insulation screw and AKURIT DDT ceiling insulation plate is to be used.
- Bonding insulation panels: When bonding insulation panels, the details of the respective ETICS approval must be observed.

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.
- A rest time of at least 1 day per mm of layer thickness, depending on the hardening conditions, must be adhered to.

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.

Packaging

- 30 kg/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. 5.5 kg/m² for adhering
- yield: app. 21 l fresh mortar per 30-kg-Bag

Product type	standard plastering mortar GP
Category	CS IV
Compressive strength	≥ 10 N/mm ²
Grain	0 – 1 mm
Water requirement	approx. 7.0 l per 30 kg/sack
Set mortar bulk density	approx. 1.6 kg/dm ³
Fire behaviour	A2 in accordance with EN 13501
Adhesive tensile strength	≥ 0.08 N/mm ²
Capillary water absorption	W _c 0 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)

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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 (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.