

SK nature

Finishing and adhesive mortar

Sustainable, ecological adhesive and reinforcing mortar

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

- with resource-saving, innovative binder concept
- colour: light grey



Applications

- for AKURIT thermal insulation systems
- reinforcement plaster for application on façades
- for renovating, reinforcing and restoring old plaster
- for the levelling of uneven substrates
- for fixing and filling extruded PS boards for perimeter insulation
- for interior and external use

Properties

- mineral
- high bonding strength
- low stress and low shrinkage
- fibre-reinforced
- UV and weather resistant
- good workability

Composition

- quality-monitored
- Binders in accordance with DIN EN 197-1 and alternative binders
- low-chromate

Substrate

Suitable substrates

- Concrete
- All types of masonry
- 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).
- Extruded PS boards for perimeter insulation must be roughed up.

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: Apply the adhesive over the entire surface using the combed bed method or with a line of adhesive around the panel edges and daubs across the surface. (Adhesive coverage: at least 40%). Further work on the bonded insulation panels can be carried out after sufficient standing time has elapsed and the mortar has hardened. After 2 days to 3 days at the earliest.
- Reinforcing of insulation boards: Apply reinforcement mortar with suitable tools in a layer thickness of approx. 4 mm and insert reinforcement fabric. Allow to stand for at least 7 days, depending on weather conditions, before further reworking.
- 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.

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.
- 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

- Do not allow adhesive mortar to swell in the panel joints. Remove immediately if necessary.
- Take into consideration the respective system permissions when using the product in thermal insulation composite systems.
- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.
- 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

Storage

- Store sacks appropriately and in dry conditions on pallets.
- 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. 5.5 kg/m² when bonding
 - approx. 7.0 kg/m² per 5 mm plaster thickness when reinforcing
- yield: app. 17.5 l fresh mortar per 25-kg-Bag

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Technical Data

Product type	standard plastering mortar GP
Category	CS III
Grain	0 – 1 mm
Water requirement	approx. 5.0 l per 25 kg/sack
Set mortar bulk density	approx. 1.6 kg/dm ³
Compressive strength	3.5 to 7.5 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)

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.