

# akurit STU

Stuckoplan stucco mortar

## mineral stucco mortar

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

- rapid hardening
- cement-bonded



## Applications

- for producing and repairing stucco cornices
- for reprofiling existing, non-gypsum bonded stucco elements
- for production and completion of fine and coarse stucco cores of profiles
- for creating pilaster strips and cornices
- for plastic forming, e.g. of stone blocks
- for external and interior use

## Properties

- rapid hardening
- mineral
- smooth and easy to process
- good stability under load
- high adhesive bond
- water-repellent

## 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

### General

- Masonry
- Lime cement plasters and cement 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.

### Pretreatment

- Remove damaged partial areas of stucco profiles down to the load-bearing substance.
- Smooth, low absorbent substrates are to be roughened or pre-treated with AKURIT MH grey universal bonding bridge.

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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

- 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.
- Mix material homogeneously and without lumps with a suitable agitator, allow to cure for approx. 3 minutes and stir again.
- Do not mix with other products and/or other substances.

#### Applying / Processing / Assembling

- Apply AKURIT STU fine 0-0.4 mm maximum 5 mm in one layer.
- Profiles covered with AKURIT STU coarse 0-2 mm with a stucco thickness of more than 50 mm are to be carried out on non-corrosive wire plaster construction or also fastened mechanically to the substrate. In case of high tensile loads, it is recommended to save weight by using non-swelling hollow body constructions.
- Processing is done by hand in one or more layers depending on the profile depth. A maximum of 30 mm may be processed in one layer. Stucco profiles that were produced on the drawing bench are attached with strasser FLEX FKC flexible adhesive Classic. Depending on the profile thickness, non-corrosive, mechanical anchors are also necessary.

#### Processing time

- Approximately 40 minutes
- The stated times apply for a temperature of +20°C and relative humidity of 65%.
- The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity.
- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.

#### Drying / Hardening

- Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.

#### Subsequent coating / workability

- The plaster surface must be sufficiently hard and completely dried through before coatings are applied. You must wait at least one day per mm of plaster thickness.

#### Tool cleaning

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

#### Notes

- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.

### Packaging

- 25 kg/sack

### Storage

- Store dry and as per instructions.
- can be stored in sealed original container/bag for at least 6 months from manufacturing date

### Quantity required / Yield

- consumption: depending on application
- yield: app. 20 l fresh mortar per 25-kg-Sack

<b>Product type</b>	standard plastering mortar GP
<b>Category</b>	CS III
<b>Grain</b>	STU fine: 0 – 0,4 mm STU coarse: 0 – 2 mm
<b>Water requirement</b>	STU fine: approx. 6,25 l/sack STU coarse: approx. 5,75 l/sack
<b>Set mortar bulk density</b>	approx. 1.4 kg/dm <sup>3</sup>
<b>Compressive strength</b>	≥ 6.0 N/mm <sup>2</sup>
<b>Fire behaviour</b>	A1
<b>Adhesive tensile strength</b>	≥ 0.08 N/mm <sup>2</sup>
<b>Capillary water absorption</b>	W <sub>c</sub> 1 (in accordance with 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>	≤ 0.45 W/(mK)

### 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.