

# akurit AFM

Exterior fine plaster mortar

## enhanced fine plaster

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

- can be finely textured
- water-repellent



## Applications

- on cement-bonded base plasters and raw concrete
- for reworking old load-bearing plaster
- for plastering wall surfaces in thin layers
- for smooth, finely-felted surfaces
- for interior and external use

## Properties

- behaviour in fire A1 - non-flammable
- water-repellent
- smooth and easy to process
- mineral

## Composition

- Grey cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- finely fractionated silica sand
- additives for regulating and improving workability and product properties

## Substrate

### Suitable substrates

- Lime or lime cement plasters
- old load-bearing, cement-bonded plasters, unpainted
- rough formed concrete

### Condition / Testing

- The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
- 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.

### Pretreatment

- Recesses and cavities in the substrate must be levelled off beforehand.
- Highly absorbent substrates should be wetted in good time, days before if need be.
- Pre-treat smooth concrete surfaces with AKURIT GPG plaster primer, AKURIT GMG mineral primer or AKURIT MH grey universal bonding bridge.
- Alternatively, smooth concrete surfaces can also be prepared with AKURIT UNI-H adhesive plaster or the AKURIT MH grey universal bonding bridge MH grey.

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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.
- 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

- Apply material over the entire surface using an appropriate, non-rusting tool.
- Application thickness: approx. 2 – 3 mm on base plasters
- Application thickness: at least 5 mm on rough, absorbent concrete surfaces
- Do not exceed application thickness of 10 mm.
- If the plaster is applied in layers, then allow an intermediate standing time of one day per mm of plaster thickness before applying the next layer.
- Finish the surface with a sponge float after waiting for an appropriate length of time.
- Do not exceed a total layer thickness of 15 mm in case of multi-layer application.

#### Processing time

- Approx. 2 hours at 20°C and 65% relative air humidity
- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.

#### Drying / Hardening

- To prevent the plaster from drying out too quickly at higher temperatures, the plastered area should be kept moist for at least three days.
- 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.
- The drying and hardening process will be slowed down by low temperatures and/or high air humidity and accelerated by high temperatures and/or low air humidity.

#### Subsequent coating / workability

- All types of mineral finishing plaster and organically bound plasters, such as silicate, silicon resin or emulsion plasters, may be applied as finish plaster.
- A coat of silicate, silicone resin or emulsion paint is possible as a base and final coat.
- 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 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

- quantity required: approx. 7.0 kg/m<sup>2</sup> per 5 mm thickness of plaster
- yield: app. 19.5 l fresh mortar per 25-kg-Bag

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## Technical Data

<b>Product type</b>	standard plastering mortar GP
<b>Category</b>	CS II
<b>Grain</b>	0 – 0,5 mm
<b>Water requirement</b>	approx. 7.5 l per 25 kg/sack
<b>Set mortar bulk density</b>	approx. 1.55 kg/dm <sup>3</sup>
<b>Compressive strength</b>	1.5 - 5 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> 2 according to 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)
<b>Thermal conductivity λ<sub>10,dry,mat.</sub> for P=90%</b>	≤ 0,49 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. 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.