

# akurit ZVP

Cement pre-spray mortar

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

- building material class A1 (not flammable)



## Applications

- for masonry and concrete
- as pre-spray mortar for improving the roughness and levelling the absorbency of the substrate, e.g. on mixed masonry
- as pre-spray mortar, e. g. for subsequent tile layer in thick-bed mortar
- for external and interior use

## Properties

- good workability
- economical in use with standard plastering machinery
- weatherproof and frost proof after hardening

## 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

### Suitable substrates

- normal and heavy masonry
- Mixed masonry
- normal concrete

### 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

- Pre-treat highly absorbent plaster bases with AKURIT GAB absorption barrier if necessary.

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### 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 rest for a moment and then mix again, adding more water, if required, to achieve the right consistency for applying.
- Do not mix with other products and/or other substances.

### Applying / Processing / Assembling

- Apply rough cast with rough surface, semi-covering (cross-linking) up to 5 mm layer thickness.

### Processing time

- approx. 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

- 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.
- Rest time depending on temperature and weathering at least 1 day.

### Tool cleaning

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

### Notes

- Any sinter skin present on the surface must be removed by roughing up once the pre-spray mortar has stiffened sufficiently.
- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.

## Packaging

- 30 kg/sack
- loose in silo

## 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. 6 kg/m<sup>2</sup>
- yield: app. 20 l fresh mortar per 30-kg-Bag
- yield: app. 670 l fresh mortar per t

## Technical Data

<b>Product type</b>	standard plastering mortar GP
<b>Category</b>	CS IV
<b>Compressive strength</b>	approx. 15 N/mm <sup>2</sup>
<b>Grain</b>	0 – 4 mm
<b>Water requirement</b>	approx. 6.0 l per 30 kg/sack
<b>Set mortar bulk density</b>	approx. 1.6 kg/dm <sup>3</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> 0 according to EN 998-1
<b>Water vapour permeability μ</b>	15/35 (table value EN 1745)
<b>Thermal conductivity λ<sub>10,dry,mat.</sub> for P=50%</b>	≤ 0.82 W/(mK)
<b>Thermal conductivity λ<sub>10,dry,mat.</sub> for P=90%</b>	≤ 0,89 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.

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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.