akurit SHF

Renovating felted plaster

Renovation plaster for historical buildings and objects in monument conservation
standard plastering mortar GP CS II acc. EN 998-1
- enhanced
- high quality fine plaster finish
- water-repellent

Applications

- for producing rustic and felted surfaces, e. g. old German structures, washed-out etc.
- as repair mortar also on old coatings
- for external and interior use

Properties

- universal use
- mineral
- fibre-reinforced
- high stability
- high adhesive bond
- low tension
- good workability
- water-repellent

Composition

- cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- graded stone aggregates in accordance with DIN 13139
- alkali-resistant fibres
- additives for regulating and improving workability and product properties

Substrate

Suitable substrates
- old load-bearing, cement-bonded 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
- Non-load-bearing plaster and paint, loose parts, dust and dirt must be removed.
- Dense and smooth paint coats should be roughened and pre-treated with akurit GPG Putzgrund or akurit GQG Quarzgrund.
- Highly uneven areas, bumps etc. are to be levelled off with a suitable material.

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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 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 material evenly on the prepared plaster base and smooth off the fresh plaster surface with a suitable tool to make it perpendicular and flush.
- From a layer thickness > 4 mm, work in several layers or provide a mesh insert over the whole area.
- Depending on the texture you require, felt off evenly with a sponge float or model freely with a trowel.

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

- 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.
- 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. 1.2 kg/m² per mm layer thickness
- yield: app. 21 l fresh mortar per 25-kg-Bag

Technical Data

Product type	standard plastering mortar GP
Category	CS II
Grain	0 – 0,6 mm
Water requirement	approx. 5.5 l per 25 kg/sack
Set mortar bulk density	approx. 1.4 kg/dm³
Compressive strength	1.5 - 5.0 N/mm²
Fire behaviour	A1
Adhesive tensile strength	≥ 0.08 N/mm²
Capillary water absorption	W_c2 according to EN 998-1
Water vapour permeability μ	15/35 (table value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=50%	≤ 0.82 W/(mK)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=90%	≤ 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.

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)

Disposel

- 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.