akurit PSI

Silicate plaster

machine-compatible silicate finish coat, paste form for external use

Finish coat acc. DIN EN 15824

- with film encapsulation protection
- ready-to-use
- highly water vapour permeable (V1)
- non-flammable A2-s1, d0 according to EN-13501-1
- less than 6% organic compounds
- with high quality marble grain from natural sources for scratch-finish plaster textures (K)

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STUCKATEURE

Applications

- for AKURIT thermal insulation systems
- for mineral substrates

Properties

- low tension
- highly weatherproof
- highly CO_2-permeable
- with encapsulated film protection against algae and mould infestation

Appearance

- matt, mineral surface
- colours: in accordance with ColorPoint 20.10 colour palette

Substrate

General

- mineral priming or reinforcement plasters in category CS II with a minimum compressive strength of 2 N/mm², CS III or CS IV
- 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, level, clean, firm and free of adhesion-reducing residues, efflorescence and sintered coatings.
- Damp or incompletely-adhered substrates can lead to damage in the subsequent coatings.

Pretreatment

- Non-load-bearing coatings must be completely removed.
- Depending on the type and condition of the substrate, a reinforcing or absorbency-regulating primer may be required.
- A plaster-toned primer with AKURIT GMG mineral primer as intermediate coating is recommended for all plaster primers.

Processing

Temperature
- Do not use in air or substrate temperatures of less than +5°C and with expected night time frost, or over +30°C, in direct sunlight and/or in strong wind.
- Make sure that no condensation builds up on the surface during processing/drying.

Mixing / Preparing / Processing
- Stir product well before use.
- Depending on the substrate, adjust to working consistency as required with maximum 5% clean tap water.

Applying / Processing / Assembling
- The product can be applied manually or with standard machinery.
- Apply a grain size of material manually with a stainless steel trowel. Then texture with an appropriate tool, e.g. plastic trowel.

Drying / Hardening
- The drying time is at least 24 hours at +20 °C and 65% relative humidity.
- The material achieves its strength as the binder forms a film during the drying process. Drying is slower at high relative humidity and/or low temperatures.
- 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.

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.
- Always apply the plaster “wet in wet” to prevent flaws in the textured finish and avoid the creation of joints. When plastering larger areas, make sure that a sufficient number of skilled workers are deployed.
- Optically related areas must be prepared with material from the same production batch to prevent colour differences.
- Take into consideration the respective system permissions when using the product in thermal insulation composite systems.
- The light reflectance value of the final coat in thermal insulation composite systems may not fall below 20.
- If you require lower light reflectance values, this can be assessed on request on a case-by-case basis.
- Not suitable for horizontal or inclined surface areas exposed to the elements.

Packaging

- 25 kg/bucket

Storage

- Store in the original, unopened packaging in dry, frost-free conditions.
- Protect against direct sunlight.
- Can be stored for at least 9 months in sealed original container.

Quantity required / Yield

- consumption: approx. 2.4 / 3.0 / 4.2 kg/m² for K 1.5 / 2 / 3 mm

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Technical Data

Density	1.7 – 1.9 g/cm³
Diffusion-equivalent air layer thickness (s_D-value)	0.08 – 0.10 m V1 (high) EN ISO 7783
Water permeability rate w	< 0.2 kg/(m²h$^{0.5}$) W2 (medium)
Water vapour diffusion resistance μ	30 - 60
Fire behaviour	A2-s1, d0 according to EN 13501
Thermal conductivity λ	0.7 W/(mK) according to DIN 4108
Adhesive tensile strength on concrete	≥ 0.3 N/mm² according to EN 1542

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations in the technical parameters are possible due to tints.

Safety and disposal instructions

Safety

- If any product gets into the eyes, rinse out immediately with clean tap water. Consult optician. Clean with plenty of water after skin contact.
- Follow further instructions in the safety data sheet.

Disposel

- Dispose of the material in accordance with the official regulations.
- Completely empty and recycle the packaging.
- Liquid product remains can be disposed of according to waste directory regulations under the Waste Code 08 01 12 (ink and paint wastes with the exceptions of those falling under 08 01 11).
- Hardened product residue can be disposed of according to waste directory regulations under the Waste Code 17 09 04 (mixed construction and demolition waste, with the exception of waste which falls under 17 09 01, 17 09 02 and 17 09 03).

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.

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