

# akurit HCS Hydrocon

Fine finish plaster

## machine-compatible facing plaster with innovative binder combination

Finishing Plaster Mortar CR CS II acc. EN 998-1

- with scratch-finish plaster
- certified and recommended by the Institute for Building Biology in Rosenheim



## Applications

- for AKURIT thermal insulation systems
- finish plaster on mineral subsurfaces, for indoor and outdoor applications
- for increased natural facade protection to prevent colour changing

## Properties

- mineral
- vapour-permeable
- Sustainable, ecological and biocide-free
- Partially hydrophobicised
- With patented action for an optimum moisture content and a minimised moisture load on the plaster surface thanks to HydroControl
- Hydrocon® facing plasters with HydroControl offer increased protection against algae and mould
- The innovative binding agent combination of Hydrocon® facing plasters protects against calcium carbonate efflorescence from the finish coat and thereby reduce the general risk of efflorescence
- UV and weather resistant
- For intense, stunning colour tones
- Suitable for thermal insulation composite system with a light reflectance value of  $\geq 30$
- Very easy and economical to use
- suitable for machine application

## Appearance

- colours: in accordance with ColorPoint 20.10 colour palette

## Composition

- Innovative binder combination
- High-quality binder in accordance with DIN EN 197-1 and DIN EN 459-1
- mineral additives according to DIN EN 13139
- additives for regulating and improving workability and product properties
- in case of coloured material: weather-resistant inorganic pigments

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## Substrate

### Suitable substrates

- base plasters or reinforcement plasters bound with lime, lime-cement or cement

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

### Pretreatment

- Allow the base plaster to cure for at least one day per mm thickness of base plaster layer before applying the plaster.
- Surfaces created with AKURIT smoothing and adhesive mortar can be coated directly. We recommend a tinted primer in the colour tone of the plaster with an intermediate coating of AKURIT GMG mineral primer.
- Mineral base plasters should be pre-treated with AKURIT GMG mineral primer.
- Pre-wet base plasters evenly if required.

## 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

- 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 develop for a moment and then mix again.
- Always mix in the full contents of bagged products.
- Do not mix with other products and/or other substances.

### Applying / Processing / Assembling

- Apply material over the entire surface using a suitable, non-rusting tool or spray on a thin layer with a plastering machine and then smooth off to grain size.
- Apply textures soon after applying with appropriate tool, e.g. plastering float or rubber board.

### Processing time

- Approximately 1 hour
- 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

- 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.

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## 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.
- To achieve the HydroControl effect, apply two coats to the AKURIT HYDROCON® facing plaster. This should take place with the matching AKURIT FHC HYDROCON® silicate finish.

## Tool cleaning

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

## Notes

- 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.
- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.
- Observe the leaflet: “Egalisationsanstriche auf Edelputzen” (Colour-balancing paint on finish plaster) from the Industrierverband WerkMörtel e.V.
- The light reflectance value (LRV) of the final coat in thermal insulation composite systems may not fall below 30.

## 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

- consumption:  
approx. 3.5 kg/m<sup>2</sup> at 2 mm grain  
approx. 4.5 kg/m<sup>2</sup> at 3 mm grain
- yield: app. 21.5 l fresh mortar per 25-kg-Bag

## Technical Data

<b>Product type</b>	Finishing Plaster Mortar CR
<b>Category</b>	CS II
<b>Compressive strength</b>	1.5 - 5 N/mm <sup>2</sup>
<b>Grain</b>	2 mm, 3 mm
<b>Water requirement</b>	approx. 7.0 l per 25 kg/sack
<b>Set mortar bulk density</b>	approx. 1.5 kg/dm <sup>3</sup>
<b>Fire behaviour</b>	A1 (non-flammable) in accordance with EN 13501
<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>	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.

## 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)

### Dispose!

- 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).

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## 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.