

Beeckosil Coarse

Slurry primer and intermediate coat in the BEECKOSIL system, silicification-active, one-pack silicate system to VOB/C DIN 18363 2.4.1.

1. Product Properties

Beeckosil Coarse is a solvent-free one-pack silicate system with BEECK ASF® Active Silicate Formulation. User-friendly siliceous filler coat with 0.4 mm texture grain. For levelling primer and intermediate coating on rendered façades, porous natural stone, brick and concrete. Especially for substrates with minor structural defects or for firm old mineral coatings. Contains silicifiable potassium water glass as a binder. Silicification, the chemical reaction between mineral substrate, pigments and potassium water glass, produces inseparable bonding with the mineral substrate.

BEECK ASF®
Aktiv Silikat Formulierung

1.1. Composition

- Pure mineral potassium water glass
- Mineral pigments: lightfast, highly alkali-resistant, of natural origin
- Silicification-active extenders, texture grain approx. 0.4 mm
- Organic content < 5% (VOB/C DIN 18363 2.4.1.)
- Free from solvents, biocides and preservatives

1.2. Technical properties

1.2.1. Overview

- Use on façades
- BEECK ASF® Active Silicate Formulation
- Extremely water vapour permeable, ideal building physics properties
- Attractive diffuse light effect due to 0.4 mm texture grain
- Brightens up smooth surfaces
- Covers individual hairline cracks and minor structural defects
- Optimum silicification with subsequent coat
- Nonflammable
- Natural alkalinity helps to prevent algae and mould

1.2.2. Important building physics characteristics*

Parameter	Value	Conformity
Density 20°C:	1.58 kg / litre	
pH value 20°C:	11	
Dynamic viscosity 20°C:	8,000 mPas	
W ₂₄ value:	< 0.08 kg / (m ² h ^{1/2})	
s _d value (H ₂ O):	0.01 m	
Colourfastness**:	Class A1	BFS Information Sheet No. 26
Grain size:	coarse (0.4 mm)	EN 13300
Gloss level at 85°:	dull matt	EN ISO 2813
Flammability class:	A2 nonflammable	EN 13501-1, DIN 4102
VOC content (max.):	4 g / litre	ChemVOCFarbV, Cat. A / c

* applicable to White | ** applicable to tinted

1.2.3. Colour

- White and off-White and ready-mixed in the 200 mixed colours of the BEECK Mineral Paint Colour Chart.
- Colour groups: I – IV
- Tintable with BEECK Full Colour Silicate Paint.

2. Use

2.1. Substrate requirements

- Can be used on porous, absorbent to water-repellent mineral, silicifiable substrates.
- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- Test new render for drying and strength.
- Carefully make good chipped surfaces, cracks and misses with the same type of material and the same texture.
- Use render to repair cracked substrates. Precoat whole surfaces with crazing-like hairline cracks, made good render and minor structural defects with BEECK Quartz Filler.
- Use Beeckosil Coarse on surfaces with individual hairline cracks and minor structural defects as well as to brighten up smooth surfaces.



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- Gently clean pressure-sensitive surfaces.
- Prepare algae infested façades with BEECK Fungicide according to the factory specifications.
- Ensure uniform substrates and careful application without grain pockets on high-quality, visually critical surfaces and in glancing light.
- Always try out on a test area of the paint system under on site conditions on critical and visually high-quality surfaces.

2.2. Brief information on the standard system

- Primer and possible intermediate coat with Beeckosil Coarse, white or tinted. Same colour topcoat with Beeckosil Fine.
- Use BEECK Fixative to thin and optimally adjust Beeckosil Coarse to the substrate and use.
- Use BEECK Silane Primer, BEECK Quartz Filler and / or BEECK Bonding Coat Fine / Coarse to apply a primer coat to critical surfaces as required.

2.3. Substrate and preparatory treatment

- **Lime render (PI/CSII), lime-cement render (PII), cement render (PIII):**
Check drying and strength of render. Use BEECK Etching Fluid to remove sinter skin on solid render, or grind off. Do not etch thin coat renders and composite systems (for example, ETICS). Prime absorbent render with BEECK Fixative, thinned with 2 parts water. Flow coat renders with surface sanding but which are still firm with 1 part BEECK Fixative and 5 parts water until saturated. Check pure air-lime renders for stability.
- **Concrete, fibrated cement:**
Use high pressure cleaner and BEECK Formwork Oil Remover according to the factory specifications to clean concrete pore-deep and to remove any residual release agent, and then rinse with plenty of clean water. Prime with BEECK Fixative, thinned with 2 parts water. Coat the whole of all made good surfaces with BEECK Quartz Filler. Prime fibrated cement with BEECK Silane Primer and BEECK Bonding Coat Fine / Coarse, try out on a test area.
- **Natural stone, brick, calcium silicate masonry, aerated concrete:**
Clean thoroughly, check for moisture damage and efflorescence (e.g. salt edges, iron salts) and make good defective joints and bricks. Preset absorbent substrates with BEECK Fixative, thinned with 2 parts water. Flow coat weakly efflorescent substrates and aerated concrete with BEECK Silane Primer. Use BEECK Quartz Filler as required.
- **Existing coats, synthetic resin render, external thermal insulation composite systems (ETICS):**
Thoroughly clean old mineral coatings and brush off. Remove cracked, less adherent and film-forming old coats as pore deep as possible. Check remaining coats for adhesion, firmness and intactness. Clean firmly adhering matt coatings and renders. Use BEECK Fungicide according to the factory specifications to prepare surfaces infested with algae. Prime absorbent, chalking and crumbling surfaces with BEECK Fixative, thinned with 2 parts water. BEECK Bonding Coat Fine/Coarse can be used for a highly adherent white primer coating. In case of hairline cracks or minor structural defects, roughly precoat the whole surface of the façade with BEECK Quartz Filler or Beeckosil Coarse. Prepare a test area first. Due to the heating effect, use only light colours with lightness value (LV) > 40 on external thermal insulation composite systems (ETICS). Clean pressure-sensitive surfaces carefully.
- **Unsuitable substrates** are horizontal or sloping surfaces exposed to the weather, less stable, efflorescent surfaces and non-alkali-resistant substrates such as wood-based materials (MDF, OSB), clay or loam, gypsum, and plastics as well as non- firm and plasto-elastic coatings.
- **Defective substrates** require a differentiated approach. Apply a renovation render to damp, salt contaminated surfaces and base areas, and treat the whole surface with BEECK Quartz Filler.

2.4. Application instructions

2.4.1. General information

Check substrate suitability as required (see 2.1 and 2.3). Pay particular attention here to the absorbency, strength and texture of the respective substrate. Try out on a test area before using on high quality and critical surfaces. Ensure that the product is used by qualified persons only.

- Carefully cover surfaces that are not to be treated – especially glass, ceramics, window sills, expansion joints, lacquers and anodic coatings – and protect them from splashes.
- Provide personal protective equipment.
- Only use containers from the same production batch to coat self-contained areas.
- Ensure sufficient qualified workers and smooth, uninterrupted coating process.
- Stir Beeckosil Coarse uniformly with a powered mixing paddle before use.
- Add BEECK Fixative to Beeckosil Coarse to make it optimally coatable.
- Do not use in wet conditions, if there is a risk of frost, on hot surfaces or in the blazing sun.
- Minimum application temperature: +8°C
- Drying time: at least 12 hours per coat



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- Protect fresh coats from rain and the blazing sun; hang up scaffolding sheeting in front of the surface worked on.

2.4.2. Application

With roller or brush. Apply on self-contained areas with an absolutely thin coating, no overlapping and uniformly in one pass in a cross coat.

- **Application with roller or brush:**

- Rollers and brushes with a uniform coating pattern are suitable.
- Avoid grain pockets, roller edge marks and joins.
- Cut-in edges smoothly and seamlessly, wet-on-wet, together with the main area.
- As a brushed surface, use a BEECK Mineral Paint Brush to spread without brushing in any particular direction, avoid grain pockets.
- Coats:
Primer and possible intermediate coat: Thin product with approx. 10 % – 20 % BEECK Fixative, adjust to make it coatable.
Topcoat: With Beeckosil Fine in the same colour after at least 12 hours.

2.5. Auxiliary products

- BEECK Etching Fluid for removing sinter layers on solid new render. Do not etch thin coat renders or ETICS.
- BEECK Fungicide against algae infestation. Use according to the factory specifications.
- BEECK Fixative, Primer and Thinner.
- BEECK Silane Primer reduces moisture transport and salt efflorescence on critical substrates.
- BEECK Bonding Coat Fine or Coarse (0.4 mm), as white base coat with excellent adhesion capacity.
- BEECK Quartz Filler, fibre reinforced, slurry priming coat for covering hairline cracks, making good render and minor structural defects. Apply over whole surface with the brush.

3. Application Rate and Container Sizes

The application rate, i.e. the quantity required for smooth, normally absorbent substrates is approx. 0.24 kg Beeckosil Coarse per m² and pass. Try out on a test area on site to determine substrate-related application rate differences, especially on rough cast renders.

Container sizes: 8 kg / 20 kg

4. Cleaning

Thoroughly clean equipment, tools and soiled clothing with water immediately after use.

5. Storage

Stored cool and frost-free, Beeckosil Coarse can be kept for at least 12 months.

6. Hazard notes, safety instructions and disposal

Comply with the EC Safety Data Sheet. Safety data sheet available on request.

Precautionary statements: Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Wear eye/face protection. The product is alkaline. Do not breathe vapours, spray-mist and dust. Carefully protect the area surrounding the surface to be coated, wash off splashes immediately with water. Disposal in accordance with the official regulations.

Waste disposal number: 080112

7. Declaration

This technical information is offered as advice based on our knowledge and practical experience. All information is provided without guarantee. It does not release the user from their responsibility to check the product suitability and application for the specific substrate on which it is to be used. Subject to change without notice as part of our product development. Non-system additives for tinting, thinning, etc. are not permitted. Check the colours before use. This information sheet automatically becomes invalid when a new edition is issued. The information in the current version of the EC Safety Data Sheets is binding for classification according to the Hazards identifications, disposal considerations, etc.