



BEECK Quartz Filler

Siliceous, fiber-reinforced primer to VOB/C DIN 18363 2.4.1. for bridging over hairline cracks and structural defects or as part of an overall surface renovation system. Natural white, texture grain 0.4 mm

1. Product Properties

Filling primer coating for silicifiable substrates, interior and exterior, such as lime and cement plaster/render/stucco, concrete and all types of masonry. Can also be used on firm old coatings and external thermal insulation composite systems (ETICS). Ideal as full surface levelling, slurry coating on façades with hairline cracks, surface imperfections, small misses and texture defects. After coating with Quartz Filler, the substrate can be painted with Beeckosil, Renosil, Beecko-Sol, BEECK Concrete / Stone Glaze or one of the other BEECK Silicate paint systems. Quartz Filler can also be used as a slurry additive, e.g. for BEECK Pure Crystalline Finish. The high filling property combined with fiber reinforcement for permanent siliceous bridging of static hairline cracks, crazing and for levelling surface defects to renew the substrate. Quartz Filler is also a durable addition when repairing and mineralizing synthetic resin-based stucco substrates.



Quartz Filler is a dispersion silicate system manufactured to VOB/C DIN 18363 2.4.1. Thanks to the BEECK ASF® Active Silicate Formulation, Quartz Filler has unsurpassed silicification-active and durability. Silicification is the chemical reaction which takes place between the mineral substrate, extenders and potassium water glass which does not create a surface film, but instead produces a microporous, inseparable unit of substrate and coating. BEECK Quartz Filler is therefore optimally compatible with porous mineral substrates and subsequent siliceous coatings. Even when used for renovation, a surplus thickness of organic material does not form. Neither embrittling nor thermoplastic. Decidedly economical to use, increases the durability and attractiveness of silicate coatings and verifiably protects the substrate against weathering.

1.1. Composition

- Pure mineral potassium water glass
- Filled with silicification-active extenders with texture grain 0.4 mm
- Cellulose fibers for reinforcing hairline cracks
- Organic content < 5% (VOB/C DIN 18363 2.4.1.)
- Free from solvents, biocides and preservatives

1.2. Technical properties

1.2.1. Overview

- For use on interior and exterior surfaces
- BEECK ASF® Active Silicate Formulation
- Extremely water vapor permeable, ideal building physics properties
- Brightens up smooth structures through texture grain 0.4 mm
- Bridges hairline cracks and minor structural defects
- Attractive, brushed, mineral surface
- Optimum silicification with subsequent coat
- Can be coated over practically an unlimited number of times, as is non film-forming
- Unsurpassed durability and economical to use
- Nonflammable
- Natural alkalinity helps to prevent algae and mold

1.2.2. Important building physics characteristics

Parameter	Value	Conformity
Density 20°C:	1.56 kg / L	
pH value 20°C:	11	
Dynamic viscosity 20°C:	approx. 9,000 mPas	
W ₂₄ value:	0.30 kg/(m ² h ^{1/2})	
S _d value (H ₂ O):	0.02 m	
Flammability class:	A2 nonflammable	EN 13501-1, DIN 4102
VOC content (max.):	4 g / L	ChemVOCFarbV, Cat. A / c

1.2.3. Color

- Natural white opaquely pigmented



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2. Use

2.1. Substrate requirements

- Can be used on porous, absorbent to water-repellent mineral, silicifiable substrates in interiors and exterior.
- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- Check drying times and strength of new plaster/render or stucco.
- Carefully make good chipped surfaces and patches with the same type of material and the same texture.
- Use plaster or render to repair cracked substrates, e.g. finishing compound with fabric mesh reinforcement. Precoat whole surfaces with crazing-like, static hairline cracks, locally made good plaster or render and minor structural defects directly with BEECK Quartz Filler.
- Gently clean pressure-sensitive surfaces.
- Prepare algae infested façades with a biological cleaner according to the factory specifications. Ask your BEECK representative for recommendations.
- Pay particular attention to uniform substrates and careful use on visually high-quality surfaces and in glancing light. Avoid grain pockets, overlapping and joints, e.g. in scaffold working areas.

2.2. Brief information on the standard system

- For an overall coating with BEECK Quartz Filler, apply using the BEECK Mineral Paint Brush for the best results.
- BEECK Quartz Filler can be optimally thinned for easy application to the substrate by adding 10 % – 20 % BEECK Fixative. Use a brush to fill cracks and misses with slurry coat, control application to ensure the same texture.
- Subsequent paint with, for example, BEECKOSIL, RENOSIL, BEECKO-SOL or BEECK Concrete / Stone Glaze.
- For use as a slurry additive, e.g. to BEECK Pure Crystalline Finish: see 2.4. Application instructions:

2.3. Substrate and preparatory treatment

- **Lime plaster, stucco or render (PI/CSII), lime-cement stucco, plaster or render (PII), cement stucco, plaster or render (PIII), external thermal insulation composite system (ETICS):**
Remove sinter skin on solid plaster or render using an Etching Fluid according to the factory specifications. Do not etch thin coat plasters or renders or composite material (e.g. ETICS). Preset absorbent, weakly sanding plaster or render with BEECK Fixative, thinned with 2 parts water. Use BEECK MBA-Fixative on water-repellent substrates. Check pure air-lime plasters or renders for stability.
- **Concrete, fiber cement, calcium silicate:**
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. Rinse off formwork release oil thoroughly including in interior areas. Prime fiber cement in exterior areas with BEECK Silane Primer and BEECK Bonding Coat Coarse. Try out on a test area.
- **Natural stone, brick, CMU, 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 damaged masonry. Prime absorbent substrates with BEECK Fixative, thinned with 2 parts water. Flow coat weakly efflorescent substrates and aerated concrete in exterior areas with BEECK Silane Primer.
- **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 the adhesion and firmness of remaining coatings. Clean firmly adhering matt coatings, plasters and renders. Prepare algae infested surfaces with Biological cleaner according to the factory specifications. Prime absorbent, chalking and crumbling surfaces with BEECK MBA Fixative, thinned with 2 parts water. BEECK Bonding Coat Fine/Coarse can also be used as 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. Try out on a test area. Gently clean pressure-sensitive surfaces.
- **Unsuitable substrates** are large horizontal areas, unstable, efflorescent surfaces and non-alkali-resistant substrates such as wood-based materials (MDF, OSB), clay or loam, gypsum and plastics as well as old, non-firm, glossy, plasto-elastic coatings and walking surfaces.
- **Defective substrates** require a differentiated approach. Apply renovation plaster or render to damp, salt contaminated surfaces, basement walls and base areas, then apply a primer coat of BEECK Quartz Filler to the whole surface.



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2.4. Application instructions

2.4.1. General information

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

- Carefully cover surfaces which are not to be treated – especially glass, ceramics, window sills, expansion joints, lacquer and anodic coatings and protect them from splashes.
- Provide personal protective equipment.
- Before use, stir BEECK Quartz Filler uniformly with a powered mixing paddle.
- Make BEECK Quartz Filler the optimum consistency for your project by adding 10 % – 20 % BEECK Fixative.
- Ensure sufficient qualified workers and a smooth, uninterrupted coating process.
- Do not use in wet conditions, if there is a risk of frost, on hot surfaces or in the blazing sun.
- Minimum application temperature: +40°F, Maximum application temperature +87°F
- Drying time: at least 12 hours per coat.
- Protect fresh coats from rain and the blazing sun; hang up scaffolding sheeting in front of the surface if needed.

2.4.2. Application

• **As a slurry primer coat:**

Use the BEECK Mineral Paint Brush to apply BEECK Quartz Filler. Uniformly apply and lay-off all over on self-contained areas, smoothly and seamlessly, with the same texture. As an attractive, brushed surface by cross coating, i.e. with directionless brush movements.

- Make BEECK Quartz Filler optimum consistency for your surface by adding 10 % – 20 % BEECK Fixative, depending on the substrate. Apply one or two coats, depending on the substrate and specification.

• **As a slurry additive to BEECK Pure Crystalline Finish:**

Primer coat:

- All over with BEECK Quartz Filler, thinned with 10 % – 20 % BEECK Fixative.
- Alternatively, advisable for tinted coatings: Soak 25 kg BEECK Powdered Pigment in 30 kg BEECK Fixative and, while stirring, add 40 kg BEECK Quartz Filler. Make optimum coatable by adding approx. 10 kg BEECK Fixative. Apply uniformly, smoothly and seamlessly with a brush.

Intermediate coat:

- Soak 25 kg BEECK Powdered Pigment in 30 kg BEECK Fixative and, while stirring, add 20 kg BEECK Quartz Filler. Thin with a further approx. 5 kg BEECK Fixative.

Topcoat:

- Apply a coat of BEECK Pure Crystalline Finish in the same color.
- Without addition of BEECK Quartz Filler.

• **As a slurry additive to Beeckosil or BEECK Renosil:**

Primer coat:

- All over with BEECK Quartz Filler, thinned with 10 % – 20 % BEECK Fixative.

Intermediate coat:

- Mix a 15 L or 12.5 L bucket of e.g. Beeckosil Fine respectively with a 20 kg bucket of BEECK Quartz Filler.
- Add no more than 4 kg BEECK Fixative to make coatable and apply smoothly and seamlessly with a brush.

Topcoat:

- In the same color with e.g. Beeckosil Fine. Without addition of BEECK Quartz Filler.

• **As an opaque, natural white or pastel colored, tinted glaze primer for silicate glazing technique:**

Primer coat:

- All over with BEECK Quartz Filler, thinned with 10 % – 20 % BEECK Fixative, as a uniform slurry substrate on mineral plaster or render, concrete and fair-faced masonry.
- Ensure uniform and smooth, seamless application, preferably by directionless cross coating.
- One to two coats depending on requirement. BEECK Quartz Filler can be tinted in a pastel color as a glaze primer by adding maximum 10 % BEECK Full Color Silicate Paint; the whiteness can be significantly increased by adding 10 % Beeckosil White.

Silicate glazing technique:

- With BEECK Concrete-/Stone Glaze or alternatively with BEECK MBA-Fixative and BEECK Powdered Pigment.
- 2 – 3 aquarelle-like glazing coats according to factory specifications.
- On exposed façades: Subsequent long-term preservation with BEECK SP Plus is advisable.

3. Application Rate and Container Sizes

The application rate, i.e. the quantity required is approx. 150 – 250 sf/gal (0.25 kg – 0.4 kg per m²) per coat. Determine substrate-related application differences for slurry primer coats by preparing a sample area on site, especially on rough surfaces.

Container sizes: 1 gal / 4 gal



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4. Cleaning

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

5. Storage

Stored cool and frost-free, BEECK Quartz Filler 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 vapors, 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 colors 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.