



MBA-Fixative

Special fixative for mineral substrates with low water-wettability and for BEECK silicate glazing technique with BEECK Powdered Pigment

Potassium water glass with low organic content to VOB/DIN 18363 2.4.1. For priming and stabilising porous, water-repellent mineral building materials in interior surfaces and façades, such as synthetic resin modified plasters and renders, external thermal insulation composite systems (ETICS) and weathered emulsion coatings. Ideal for durable silicate glazes with BEECK Powdered Pigment, for example, on fair-faced concrete and BEECK Quartz Filler.

1. Product Properties

BEECK MBA-Fixative contains silicification active potassium water glass as a binder. Silicification, the chemical reaction between substrate, pigments and potassium water glass, produces uniform inseparable bonding with the mineral substrate. Due to its wetting-stimulating additives, BEECK MBA-Fixative enables durable silicate coatings and glazing techniques to be used even on low wettability, water-repellent substrates. The high natural alkalinity of the potassium water glass counteracts dirt, mould and algae growth. This enables non-toxic, ecologically compatible coatings on substrates critical with regard to building physics properties, for example, external thermal insulation composite systems (ETICS). Not only unsurpassed with regard to building physics, durability and easy renovation, but also economical.

1.1. Composition

- Pure mineral potassium water glass
- Wetting and adhesion facilitating additives
- Organic content < 5% (VOB/C DIN 18363 2.4.1.)
- Water thinnable, solvent free

1.2. Technical properties

1.2.1. Overview

- For use on interior surfaces and façades
- High silicification activity
- Capillary-active, sorbable and non-vapour retarding
- Durable and weathering resistant
- Optimum wetting and adhesion properties
- Can be colour-glazed with BEECK Powdered Pigment
- Nonflammable
- Water thinnable
- Free from solvents, biocides and preservatives
- The product's natural alkalinity helps to prevent bacteria, algae and mould

1.2.2. Important building physics characteristics

| Parameter | Value | Conformity |
|---|--|-----------------------|
| Density _{20°C} : | 1.16 kg/L | |
| pH value _{20°C} : | 11 | |
| Dynamic viscosity _{20°C} : | < 500 mPas | |
| W ₂₄ value*: | > 1.00 kg / (m ² h ^{1/2}) | |
| s _d value (H ₂ O)*: | 0.01 m | |
| Flammability class: | A2 nonflammable | EN 13501-1, DIN 4102 |
| VOC content (max.): | 2g/L | ChemVOCFarbV Cat. A/a |

* applicable to presetting with BEECK MBA-Fixative

1.2.3. Colour

- Milky when wet
- Transparent after drying

2. Use

2.1. Substrate requirements

- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- Use preferably on low wettability, water-repellent (hydrophobic), however porous and silicifiable mineral building materials, e.g. external thermal insulation composite systems (ETICS) and organosilicate coatings.
- Check drying and strength of new plaster.
- Carefully make good chipped surfaces and misses with the same type of material and the same texture.
- Use render or plaster to repair cracked substrates. Areas with hairline cracks and minor structural defects: precoat the whole surface with BEECK Quartz Filler.



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- Also apply BEECK Quartz Filler as a slurry-white glaze primer, if you do not want a fair-faced stone or concrete glazing effect.
- Gently clean pressure-sensitive surfaces.
- Prepare and re-treat algae infested façades with BEECK Fungicide according to the factory specifications.
- Ensure uniform substrates and careful application on high visual quality surfaces.

2.2. Brief information on the standard system

- See 2.4. Application instructions for the various areas of use of BEECK MBA-Fixative.

2.3. Substrate and preparatory treatment

- **Lime plaster/render (PI/CSII), lime-cement plaster/render (PII), cement plaster/render (PIII); porous, with or without water repellency:**

Check drying and strength of plaster. Use BEECK Etching Fluid to remove sinter skin on solid plaster or render, or grind off. Do not etch thin coat plasters and renders and composite systems (for example, ETICS). Preset plaster or render with BEECK MBA-Fixative, thinned with 2 parts water, to stabilise sanding surfaces and to reduce absorbency. Use BEECK MBA-Fixative, thinned with 5 parts water to flow coat crumbling but still firm plasters or renders several times until saturated. Allow air-lime plasters and renders to carbonate sufficiently before coating and always try out on a test area on site due to the required minimum strength.

- **Concrete, fair-faced concrete:**

Use formwork release oil remover and high-pressure cleaning methods to remove release agent residues thoroughly and pore-deep, rinse with plenty of clean water. Thoroughly wash off in interior areas too. Test the wettability of the cleaned substrate by spraying on water. Preset with BEECK MBA-Fixative, thinned with 2 parts water. For glazing technique on fair-faced concrete, thin 1 part BEECK MBA-Fixative with 1 part water and glaze as described under 2.4. with the addition of BEECK Powdered Pigment.

- **Brick, calcium silicate masonry, natural stone:**

Clean depending on the soiling and condition. Check for efflorescence (e.g. salt edges, iron salts), moisture damage and absorbency. Make good defective joints and bricks. Preset with BEECK MBA-Fixative, thinned with 2 parts water. Cannot be used on glazed clinker or pore-free natural stone, e.g. granite.

- **Existing coats, synthetic resin plaster or 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 coatings and plasters or renders. Use BEECK Fungicide according to the factory specifications to prepare and re-treat surfaces infested with algae. Prime absorbent, chalking and crumbling surfaces with BEECK MBA-Fixative, thinned with 2 parts water. Due to the heating effect, only use light colours (lightness value LV > 40) on external thermal insulation composite systems (ETICS), even for glazing techniques.

- **Unsuitable substrates** are horizontal weathered, 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 old, non-firm plastoelastic coatings.

- **Defective substrates** require a differentiated approach. Apply renovation render or plaster to damp, salt-contaminated surfaces, basement walls and base areas. Apply subsequent primer coat over 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 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 which are not to be treated – especially glass, ceramics, window sills, expansion joints, lacquer and anodic coatings – and protect them from splashes.
- Especially if using tinted coatings and glazing techniques: Always use containers of product from the same production batch to paint self-contained areas. Ensure sufficient qualified workers and 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: +8°C
- Drying time for glazing technique: at least 8 hours per pass.
- Protect fresh coats from rain and the blazing sun. Hang up scaffolding sheeting in front of the surface worked on.

2.4.2. Application

- **Primer for water-repellent, however porous mineral substrates:**

- Thin 1 part BEECK MBA-Fixative with 2 parts water.
- Apply thickly with BEECK Mineral Paint Brush until saturated.



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- Carefully spread out surplus coating in less absorbent areas.
- Try out on a test area of critical surfaces and unknown substrates. Care is needed when using anti-graffiti coatings!

■ **Stabilisation of crumbling, but nonetheless essentially firm, mineral building materials:**

- Thin 1 part BEECK MBA-Fixative with 5 parts water.
- Flow coat substrate wet-on-wet several times until saturated.
- Carefully spread out surplus in less absorbent areas and on saturated substrates.

■ **Binder for silicate glazing techniques with BEECK Powdered Pigment:**

Check glaze thickness, technique and substrate suitability on sample area. Apply BEECK Quartz Filler as a slurry-white glaze primer over the whole area, if you do not want a fair-faced stone or concrete glazing effect.

Preparation:

- Thin 1 L BEECK MBA-Fixative with 1 L water.
- Add approx. 200 g–500 g BEECK Powdered Pigment, depending on the required colour strength.
- Stir thoroughly and soak for at least two hours, ideally over night.
- Before use, sieve if necessary.
- Stir occasionally.
- Close container airtight during breaks.

Use:

- Apply watercolour-like in 2–3 glaze coats using the BEECK Mineral Paint Brush or BEECK Oval Brush.
- 3 glaze coats are required in exposed outdoor areas.
- Application method: Apply thin coats, smoothly and seamlessly and without overlapping.
- Drying time: at least 8 hours per glaze coat

Please refer to the BEECK Pure Crystalline Finish technical data sheet.

Long-term preservation with BEECK Silicone Plus recommended for: Representative façades and buildings without a roof overhang as well as on noise barriers with high exposure to dirt and rain. Due to silicification, wait at least 10 days before applying BEECK Silicone Plus on the silicate glaze.

3. Application Rate and Container Sizes

The application rate, i.e. the quantity required for smooth, normally absorbent substrates is approx. 0.03 L BEECK MBA-Fixative per m². For glazing techniques it is approx. 0.04 L per m² and glaze coat. Try out on a sample area on site to determine substrate and glaze-related application rate differences.

Container sizes: 1 L / 5 L / 10 L

4. Cleaning

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

5. Storage

Stored cool and frost-free, BEECK MBA-Fixative can be kept for at least 12 months. Soaked with BEECK Powdered Pigment, close container airtight and use within 20 days.

6. Safety Instructions

- Comply with the EC Safety Data Sheet. The product is alkaline. Avoid contact with skin and eyes. Wear safety glasses or goggles/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Carefully cover the area surrounding the surfaces to be coated, wash off splashes immediately with water. Keep out of the reach of children. Do not breathe vapour, spray and dust. Dispose of in accordance with the legal regulations.
- Waste code (EWC code): 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. 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 EU Safety Data Sheets is binding for classification according to the Hazardous Substances Regulations, disposal, etc.

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