

Globasil

High-quality one-pack, water glass-based silicate paint in accordance with VOB/C DIN 18363 2.4.1. Extremely durable and economical. Tried and tested in all climatic regions

1. Product Properties

Universal, user-friendly silicate façade system for exterior mineral substrates, such as render, concrete and external thermal insulation composite systems (ETICS). Porous, moisture regulating and remineralising, also for renovating firmly adhering, matt existing synthetic resin and mineral paint-based coatings. Coatings with BEECK Globasil are absolutely lightfast and UV resistant, even coloured coatings. Contains silicifiable potassium water glass as a binder. Silicification, the chemical reaction between mineral substrate and potassium water glass does not create a surface film, but instead produces a microporous, inseparable unit of substrate and coating. The mineral pigmentation is also optimally incorporated.

1.1. Composition

- Pure mineral potassium water glass
- Mineral pigments: lightfast and of natural origin
- Organic content < 5% (VOB/C DIN 18363 2.4.1)
- Solvent free

1.2. Technical properties

1.2.1. Overview

- Use on façades as well as for interior
- Highly opaque and efficient to use
- Extremely durable
- Maintenance friendly
- Resistant to harsh tropical climate UV radiation and weathering
- Tried and tested in all climatic regions
- Matt and mineral
- Apply directly, without bonding coat
- Nonflammable
- Natural alkalinity helps to prevent bacteria, algae and mould

1.2.2. Important building physics characteristics*

Parameter	Value	Conformity
Density _{20°C} :	1,43 kg / L	
pH value _{20°C} :	11	
Dynamic viscosity _{20°C} :	4.800 mPas	
W ₂₄ value:	< 0.08 kg / (m ² h ^{1/2})	DIN EN 1062-3
s _d value (H ₂ O):	< 0.01 m	DIN EN ISO 7783-2
Colourfastness**:	Class A1	BFS Information Sheet No. 26
Gloss level at 85°:	matt (< 10)	DIN EN ISO 2813
Flammability class:	A2, nonflammable	DIN EN 13501-1, DIN 4102
VOC content (max.):	0 g / L	ChemVOCFarbV, Cat. A / c

* applicable to white | ** applicable to full coloured and 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 only with BEECK Universal Full Colour Silicate, also suitable as a full colour façade coating.
- Do not use non-system tinting additives. Due to the heating effect, only use light colours (lightness value LV > 40) on ETICS.

2. Use

2.1. Substrate requirements

- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- Can be used on porous, absorbent to water-repellent, as well as organically bonded façades with at least partial mineral character.
- Check drying and strength of new render.
- Carefully make good chipped surfaces and misses with the same type of material and the same texture.
- Use plaster to repair cracked substrates. Renders with hairline cracks and minor structural defects: precoat the whole surface with BEECK Bonding Coat coarse. Try out on a test area on site.
- Ensure uniform substrates and careful application on high visual quality surfaces and in glancing light.

2.2. Brief information on the standard system

- Apply two coats of BEECK Globasil. A third coat on facades exposed to heavy weathering is possible.

Globasil

- Optimally adjust BEECK Globasil to the substrate and use by adding BEECK MBA-Fixative.
- Critical substrates: apply BEECK Bonding Coat Fine / Coarse over the whole area first as preparatory treatment. Pretest.

2.3. Substrates and preparatory treatment

- **Lime render (PI/CSII), lime-cement render (PII), cement render (PIII):**
Check new render for drying and sinter skin (glass-like glossy, impermeable to water, brittle surface); remove these by blast cleaning or with BEECK Etching Fluid. Prime absorbent and sanding render with BEECK MBA-Fixative, thinned with 2 parts water. Repeatedly saturate superficially crumbly, however, firm renders.
- **Concrete, fibrated cement:**
Depending on the condition and soiling, clean thoroughly and pore-deep using high-pressure hot water and addition of BEECK Formwork Oil Remover or concrete cleaner. Rinse off with plenty of clean water. After cleaning, there must be no residual water-repellent, adhesion impairing, residual release agent. Wetting test with water. Precoat fibrated cement with BEECK Silane Primer and BEECK Bonding Coat Fine / Coarse. Try out on a test area on site.
- **Brick, calcium silicate masonry, natural stone:**
Clean with high-pressure method and check for absorbency, moisture damage, firmness and efflorescence (e.g. salt edges). Make good crumbling joints and bricks. Flow coat highly absorbent, efflorescent substrates with BEECK Silane Primer. Try out a test area on site.
- **Existing coats, synthetic resin render, external thermal insulation composite systems (ETICS):**
Remove cracked, less adherent and plasto-elastic old coats as pore-deep as possible. Check the adhesion and firmness of remaining coatings. Thoroughly clean firmly adhering coatings and renders. Prepare algae infested façades with BEECK Fungicide according to the factory specifications. Prime absorbent, chalking and crumbling surfaces with BEECK MBA-Fixative, thinned with 2 parts water. Use BEECK Bonding Coat Fine / Coarse as a highly adherent, white primer coat on substrates with an organic character. In case of hairline cracks or minor structural defects, precoat the whole surface of the façade with BEECK Bonding Coat Coarse. Pretest on site.
Information on façade cleaning: As synthetic resin renders swell if they absorb water and are slow to dry again, sufficiently long waiting periods should be allowed for between cleaning and coating. Clean composite systems, insulating renders and similar pressure-sensitive surfaces gently, without damaging the material.
- **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), loam, gypsum, and plastics as well as glossy, 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 Bonding Coat Coarse.

2.4. Application instructions

2.4.1. General information

Check substrate suitability. Pay particular attention to the absorbency, strength and texture of the respective substrate. Examine high quality and critical surfaces and try out on a test area first. 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.
- Provide personal protective equipment.
- Stir BEECK Globasil thoroughly with a powered mixing paddle before use.
- Add BEECK MBA-Fixative to optimally adjust BEECK Globasil until it is coatable (see below).
- Only use containers of product from the same production batch to paint self-contained areas.
- 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.
- 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, brush or using an airless spraying method. Apply to self-contained areas with an absolutely thin coating, no overlapping and uniformly in one continuous pass by cross coating.

- **Application with roller or brush**
 - Rollers and brushes with a uniform coating finish are suitable.
 - Avoid roller edges, ridges, overlapping and overcoating coats that have already begin to dry, especially in scaffold working areas.
 - Cut-in edges smoothly and seamlessly, wet-on-wet, together with the main area

Globasil

- As a brushed surface, use a BEECK Mineral Paint Brush to distribute without brushing in any particular direction.
- Coats:
 - 1. *Primer coat*: Thin product with around 10 % BEECK MBA-Fixative.
 - 2. *Topcoat*: After at least 12 hours, unthinned or made coatable with no more than 5 % BEECK MBA-Fixative.
- **Spraying method (airless)**
 - Nozzle: 0.79 mm / 0.031 inches.
 - Always sieve the product before use.
 - Apply uniformly and as a thin coat, then use a brush or roller to uniformly lay-off.

2.5 Auxiliary products

- BEECK MBA-Fixative, primer and thinner for BEECK Globasil.
- BEECK Etching Fluid to remove sinter layers on solid new renders. Do not use on ETICS or thin coat renders.
- BEECK Fungicide, against algae growth. Use according to the factory specifications. Determine effectiveness on specific property beforehand by trying out on a test area on site exposed to long-term weathering.
- BEECK Formwork Oil Remover for removing release agent residues from concrete.
- BEECK Silane Primer, water-repellent primers for reducing moisture transport and salt efflorescence.
- BEECK Quartz Filler P, fibre reinforced powder slurry additive for coarse-grained primer and intermediate coats. Mix 18 kg BEECK Globasil with 4 kg BEECK Quartz Filler P and thin with 2 to 4 litres of BEECK MBA-Fixative. Use a brush or roller to apply. Topcoat in same colour with BEECK Globasil, without adding BEECK Quartz Filler P.
- BEECK Bonding Coat Coarse, silicate-based, slurry priming coat for covering hairline cracks and minor structural defects. Apply over whole surface with the brush.
- BEECK Universal Full Colour Silicate for tinting as well as a full colour façade coating.

3. Application Rate and Container Sizes

The application rate, i.e. the quantity required for smooth, normally absorbent substrates is approx. 0.18 kg BEECK Globasil per m² and pass. Try out on a test area on site to determine substrate-related application rate differences.

Container size: 180 kg or other on request

4. Cleaning

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

5. Storage

Stored cool, protected from frost and heat, BEECK Globasil 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.