



BEECK Pearl gloss *Gold/Silver*

Silica-based finish in gold and silver for true-to-style building decoration

BEECK ASF®
Aktiv SilikatFormulierung

1. Product properties

Attractive metallic effect for demanding glazing and decor painting, restorations and color design for indoor and outdoor applications. BEECK pearl gloss *Gold/Silver* is adjusted for a semi-washed finish and develops an iridescent metallic and pearl gloss when applied in multiple, extremely thin coats. Can be applied on a variety of high-bonding substrates such as lime plaster, gypsum stucco, terracotta, and concrete. Single-component silica system iaw. VOB/C DIN 18363 2.4.1. Maximum color fastness A1 iaw. BFS bulletin No. 26 due to BEECK ASF® *ActiveSilicaFormula*.

1.1. Composition

- Purely mineral-based potassium silicate
- Alkaline-resistant glimmer and mineral pigments: light-fast and of natural origin.
- Organic content < 5 % (VOB/C DIN 18363 2.4.1.)
- Solvent-free and without addition of biocides

1.2. Technical properties

1.2.1. Overview

- BEECK ASF® *ActiveSilicaFormulation*
- Attractive pearl gloss for delicate workpieces and also for surface designs
- Maximum light fastness, fully UV and weather-resistant
- Washed to opaque finish in 2 - 5 coats
- Alternative to classic gilding
- Creative and high-yielding

1.2.2. Important construction characteristic values*

Parameter	Value	Conformity
Density _{20°C} :	approx. 1.20 kg / L	
pH value _{20°C} :	11	
W ₂₄ value:	< 0.08 kg / (m ² h ^{1/2})	
s _d value (H ₂ O):	< 0.08 m	
Color fastness:	class A1	BFS technical leaflet No. 26
Grain:	fine	DIN EN 13300
Sheen at 85°:	glossy	DIN EN ISO 2813
Flammability class:	A2 non-flammable	DIN EN 13501-1, DIN 4102
VOC content (max.):	2 g / L	ChemVOCFarbV, cat. A / a

* values depend on color hue

1.2.3. Color hue

- gold, silver.

2. Application

2.1. Substrate requirements

- Used on porous, absorbent, mineral-based, and silicating substrates. After prior testing, also on alkaline-resistant organic and metallic substrates, such as wood, iron metals, etc.
- The substrate must be clean, dry, solid, and have good adhesion. It must also be free of efflorescent substances and release agents. Inspect new plaster for dryness and strength. Carefully repair breakouts, cracks, and defects with the same material and texture. Refurbish cracked substrates for plastering.

2.2. Abbreviated information for standard application

- Clean substrate and carefully prepare with suitable primer, fillers, etc. For opaque coating, apply a primer coat of BEECK gypsum primer fine (interior) or single-component BEECK silica paints on facade area.
- Depending on the desired metallic effect, apply in 2 to 5 coats as an opaque or washed finish. Test processing method and film structure on original substrates in the building.

2.3. Substrate and pretreatment

- **Lime plaster (PI/CSII), lime-cement plaster (PII), cement plaster (PIII):**
Inspect plaster for dryness and strength. Remove sinter skin from solid new plaster with BEECK etching fluid, or grind off; do not etch thin-layered plaster and composite materials (e.g thermal insulation systems). Primer absorbent or lightly crumbling plaster with BEECK fixative, diluted with 2 parts water. Test on purely air-hardening lime due its low internal strength.



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- **Natural stone, kiln brick, unglazed terracotta, lime sandstone, concrete:**
Clean thoroughly, inspect for moisture damage, salt stains, and leeching, repair defective joints. Apply an initial coat of BEECK fixative on absorbent substrates, diluted with 2 parts water. Saturate slightly leeching substrates and highly-absorbent substrates with BEECK silan primer. Follow factory instructions to clean exterior concrete with high pressure water jet and BEECK formwork oil remover, then rinse with clear water. Also clean the interior with BEECK formwork oil remover, followed by rinsing with clear water. Wetting test with clear water.
- **Mineral-based old paint:**
Clean and brush. Completely remove film-forming, cracked, and poorly adhering old paint. Primer absorbent, chalking, or crumbling surfaces with BEECK fixative, diluted with 2 parts water.
- **Unsuited substrates** include horizontal or inclined, weather-exposed, poorly adhering, leeching, or alkaline-sensitive substrates, and non-bonding old paint.
- **Deficient substrates** call for a differentiated approach. Apply protective rendering on surfaces and base areas with evidence of salt and moisture damage.

2.4. Processing instructions

2.4.1. General instructions

Verify substrate suitability as defined by VOB (see 2.1. and 2.3.). Note absorption capacity, strength, and texture of the relevant substrate. Test demanding and critical surfaces. Ensure qualified processing.

- Carefully cover and protect untreated surfaces, in particular glass, ceramics, window sills, expansion joints, paint coats and anodized finishes against overspray.
- Supply personal protective gear.
- Paint self-contained surfaces exclusively with containers from the same manufacturing batch.
- Prior to use, thoroughly stir BEECK pearl gloss *Gold/Silver*, continue mixing occasionally while processing.
- Do not process in wet conditions or frost risk, on heated surfaces, or in full sun.
- Minimum processing temperature: +8°C
- Drying time: no less than 8 hours per coat
- Protect fresh coats against rain and full sun; hang scaffolding screen.

2.4.2. Application

BEECK pearl gloss *Gold/Silver* permits a wide range of creative uses – full-surface wall and facade finishes, delicate deco painting, and craftsmanship-based embellishment methods, either as glazing or opaque finishes and on various substrates; a standardized processing method can therefore not be defined.

The following instructions are general in nature and must be tested on original substrates in the building.

- **Applied with brush, whitewash brush, oval glazing brush, or roller:**
 - Suited for tools with uniform pattern.
 - Avoid roller edges, overlaps, and drying, e.g. along scaffolding levels.
 - Blend in with the surface by feathering edges wet-on-wet.
 - Coat in random pattern, or alternating in vertical and horizontal passes for opaque coating.
 - Coats:
Depending on the desired design (opaque or washed), approx. 2 - 5 extremely thin coats with a minimum drying time of 8 hours between coats. Process undiluted or premixed for brushing with a mixture of BEECK fixative and water at 1:1 ratio. For washed finish, dilute with a mixture of BEECK fixative and water at 1:1 ratio.
- **Spray method (airbrush, high and low pressure, airmix, airless):**
 - Product must be screened prior to use. Airless: nozzle: 0.79 mm / 0.031".
 - Depending on desired design apply one tack coat or a thin opaque coat in approx. 2 to 5 coats, with at least 8 hours of drying time between each coat. If needed, blend in evenly with brush or roller.
- As additive with metallic effect in single-component BEECK silica paints and glazes: Stir BEECK pearl gloss *Gold/Silver*, then mix in with silica paint using electrical agitator. Dilute and adjust for brushing with BEECK fixative as needed. Test mixing ratios and processing methods based on test surface on original substrates in the building.

3. Yield and container sizes

The approximate yield is 0.05 L BEECK pearl gloss *Gold/Silver* per m² and coat as an opaque finish. Determine the number of coats and dilution on original substrates in the building.

Container sizes: 0.25 L / 1 L / 5 L

4. Cleaning

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

5. Storage

Minimum shelf life: 12 month when BEECK pearl gloss *Gold/Silver* is stored cool and frost-free.



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6. Hazard notices, safety instructions, and disposal

Note EC material safety data sheet. Material safety data sheet available on request. Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Wear safety goggles/ facial protection. The product is alkaline. Do not inhale vapors, airborne spray, and dust. Carefully cover areas surrounding painted surfaces, immediately wash off overspray with water. Dispose in compliance with statutory regulations.

- Waste code for residual product: 080112

7. Declaration

This technical information is intended to advise you based on our findings and practical experience. All notices are non-binding. They do not relieve the user from performing their own substrate-dependent tests for product suitability and processing method. Technical changes due to product development made without notice. Third-party additives for tinting, diluting, etc. are not approved. Test color prior to processing. This leaflet automatically expires when a revised edition is published. The details in the EC safety data sheets in their current version are binding for the classification as per hazmat directive, disposal, etc.