



BEECK Gypsum Primer Fine

Highly opaque, white primer for BEECK interior silicate paints. Fine, without texture grain

1. Product Properties

Solvent free, efficient primer coat for plaster and lightweight building boards, especially gypsum boards, on walls and ceilings. Reduces effects of the substrate, such as differing or excessive absorbency. Therefore creates the basis for high class BEECK interior silicate top coats, e.g. BEECK Sensil, BEECK Maxil, BEECK Insil and BEECK Quartz Paint, without streaks, stains and areas of uneven colour. Can also be used as a silicification bridge on firm, cleaned emulsion coatings and synthetic resin plasters. Dispersion silicate primer according to VOB/C DIN 18363 2.4.1.

1.1. Composition

- One-pack silicate acrylate system
- Mineral silicification-active extenders
- White pigment titanium dioxide
- Organic content < 5% (VOB/C DIN 18363 2.4.1.)
- Solvent free

1.2. Technical properties

1.2.1. Overview

- Use on interior surfaces
- Highly opaque and efficient
- Enables stain and join-free mineral coatings with high colour saturation and brilliance, even under critical light and on site conditions
- Levels out highly and unevenly absorbent substrates
- Bonding agent for substrates with weak silicification
- High water-resistance
- Diffusible and sorbable
- Nonflammable

1.2.2. Important building physics characteristics

Parameter	Value	Conformity
Density 20°C:	1.52 kg / L	
pH value 20°C:	10	
Dynamic viscosity 20°C:	4,000 mPas	
W ₂₄ value:	0.12 kg/(m ² h ^{1/2})	
s _d value (H ₂ O):	0.04 m	
Hiding power / Contrast ratio:	Class 1	EN 13300
Wet-scrub resistance:	Class 2	EN 13300
Grain size:	fine	EN 13300
Gloss level at 85°:	dull matt	EN ISO 2813
Flammability class:	A2 nonflammable	EN 13501-1, DIN 4102
VOC content (max.):	2 g / L	ChemVOCFarbV Cat. A / a

1.2.3. Colour

- Opaque white

2. Use

2.1. Substrate requirements

- The substrate must be clean, dry, firm and stable and must be free from efflorescent and separating substances.
- 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 plaster to repair cracked substrates. On substrates with minor structural defects and if a diffuse light effect is required, use BEECK Gypsum Primer Coarse (0.4 mm).
- Ensure uniform substrates and careful application on high visual quality surfaces and in glancing light.

2.2. Brief information on the standard system

- Apply primer coat with BEECK Gypsum Primer Fine.
- Then apply one or two coats of BEECK interior silicate paint, White or tinted, as required.
- Try out coating system on test area under on site conditions.



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2.3. Substrate and preparatory treatment

- **Gypsum boards:**
Ensure proper installation and required surface quality and evenness tolerances under the given on site conditions (VOB/C and quality level 3 or 4, according to good practice guide No. 2 issued by the German gypsum industry association (Bundesverband der Gipsindustrie e.V.)). Apply primer coat to whole surface with BEECK Gypsum Primer Fine. To achieve a uniformly surface, permanent protected against cracks, use a fabric all over.
- **Lime plaster (PI/CSII), lime-cement plaster (PII), cement plaster (PIII) gypsum plaster, plaster stucco:**
Check plaster for drying and strength. Use BEECK Etching Fluid to remove sinter skin on solid plaster or grind off. Do not etch thin coat plasters, gypsum or composite systems. Stabilise highly absorbent or superficially chalking, however, firm substrates with BEECK Fixative, thinned with 2 parts water. Use BEECK Gypsum Primer Fine mainly on gypsum based surfaces.
- **Calcium silicate masonry, brick, concrete, synthetic resin plaster:**
Check for absorbency, moisture damage and efflorescence (e.g. salt edges). Clean, make good crumbling joints. Coat highly absorbent areas with BEECK Fixative, thinned with 2 parts water. Thoroughly clean concrete with water and BEECK Formwork Oil Remover according to the factory specifications and rinse off with clean water. Test the wettability of the cleaned substrate by spraying on water.
- **Old coatings:**
Check for firmness and try out on a test area, prime with BEECK Gypsum Primer Fine. Completely rinse off distempers and tempera paints. Brush off chalking mineral coatings. Clean matt, firm emulsion coatings, strip or grind off oil paint, lacquer and latex coatings. Check critical coatings for compatibility.
- **Unsuitable substrates** are efflorescent, less stable and non alkali-resistant substrates, e.g. wood-based materials (MDF, OSB) and clay or loam. Check critical surfaces for compatibility.
- **Defective substrates** require a differentiated approach. Apply renovation plaster to damp, salt contaminated areas, basement walls and base areas.

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.
- Provide personal protective equipment.
- Before use, stir BEECK Gypsum Primer Fine thoroughly with a powered mixing paddle.
- Apply unthinned or if used on highly absorbent, gypsum-based substrates: thin with approx. 5 % water.
- Do not use on hot surfaces.
- Minimum application temperature: +8°C
- Drying time: at least 12 hours per coat

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, 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, overlapping and overcoating coats that have already begun to dry.
 - 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.
 - Topcoats after at least 12 hours with BEECK interior silicate paints.
- **Sprayed use (airless):**
 - Nozzle: 0.79 mm / 0.031 inch
 - Always sieve the product before use.
 - Apply uniformly and as a thin coat, and then, if necessary, use a brush or roller to lay-off.

3. Application Rate and Container Sizes

The application rate, i.e. the quantity required for smooth, normally absorbent substrates is approx. 0.14 L BEECK Gypsum Primer Fine per m² and pass. Try out on a test area on site to determine substrate-related application rate differences.

Container sizes: 5 L / 12.5 L



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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 can be kept for at least 12 months. Close open containers airtight and use up the contents as soon as possible.

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 protective gloves. Repeated contact may cause allergic reactions in very susceptible persons. May produce an allergic reaction. The product is alkaline. Wear eye/face protection. 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.