

# BEECK Protect Primer

Removable, colourless primer for highly absorbent substrates in the BEECK Protect system

## 1. Product Properties

Reversible, i.e. removable primer for highly absorbent substrates such as gypsum, clay or loam, lime plaster and natural stone. Can be removed again at any time, even after a lengthy dwell time, without the use of chemicals, solely with clean, hot water. With no substance changing effect on the waterproof (!) substrate. Therefore ideal for temporary renovation of valuable historical wall paintings and decorative painting in consultation with the building conservation authority. Consolidates and reduces absorbency for subsequent coats of BEECK Protect, Fine or Coarse.

### 1.1. Composition

- Re-emulsifiable, alkali-resistant binder combination made from modified sizes, synthetic and natural resins. Water thinnable and solvent free.

### 1.2. Technical properties

#### 1.2.1. Overview

- Use on interior surfaces
- Substrate consolidation while retaining diffusibility
- Absorption barrier on highly absorbent substrates
- Ideal for air-lime, gypsum and clay or loam
- Reversible in the interests of listed building conservation
- Easy to use, thixotropic
- Can be coated over with BEECK Protect Fine / Coarse

#### 1.2.2. Important building physics characteristics

Parameter	Value	Conformity
Density 20°C:	1.01 kg / L	
pH value 20°C:	7	
Dynamic viscosity 20°C:	approx. 2,500 mPas	
W <sub>24</sub> value:	> 1.00 kg / (m <sup>2</sup> h <sup>1/2</sup> )	
s <sub>d</sub> value (H <sub>2</sub> O):	0.03 m	
VOC content (max.):	5 g / L	ChemVOCFarbV Cat. A / h

#### 1.2.3. Colour

- Milky, transparent after drying.

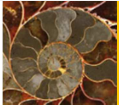
## 2. Use

### 2.1. Substrate requirements

- In the case of historical buildings, consult the site engineers and the building conservation authority. Treat substrates carefully; preliminary restoration investigations and documentation are indispensable.
- The substrate must be clean, dry, firm and stable and must be free from efflorescent (e.g. salts, aniline dyes, lignin) and separating substances. Apply renovation plaster to substrates with moisture damage and salt contamination.
- In general, use BEECK Protect Primer only on absorbent, porous substrates. Do not use as a bonding enhancer, e.g. on old paint coats.
- Check drying and strength of new plaster.
- Carefully make good chipped surfaces and misses with the same type of material and the same texture.
- Ensure uniform substrates and careful application on high visual quality surfaces and in glancing light.
- Try out on a test area of critical substrates, e.g. clay or loam.

### 2.2. Brief information on the standard system

- Apply primer coat of BEECK Protect Primer.
- Add approx. 10 % to 30 % water to BEECK Protect Primer to optimally adjust it to highly absorbent, crumbling substrates.
- Use plaster to repair cracked substrates. Areas of plaster with hairline cracks and minor structural defects: treat the whole surface with BEECK Protect Primer. Try out on a test area.
- For improved removability of full colour and tinted coatings, use preferably BEECK Protect, Fine or Coarse, in White as a primer coat.



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## 2.3. Substrate and preparatory treatment

- **(Air) lime plaster (PI, CSI/CSII), lime-cement plaster (PII), cement plaster (PIII):**  
Check drying and strength of plaster. Use BEECK Etching Fluid to remove sinter skin on solid plaster, or grind off. Do not etch thin coat plasters and composite material. Prime absorbent or weakly sanding plaster with BEECK Protect Primer. Try out first on test area of lime-air plaster.
- **Gypsum plaster, plaster stucco:**  
Apply primer coat with BEECK Protect Primer. Grind off any sinter skin beforehand.
- **Gypsum boards:**  
Ensure proper installation and required surface quality and evenness tolerances under the given on site and glancing light 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 Protect Primer. If using full colour coatings it is advisable to cover substrate with a non-woven wall covering. Do not prime water-repellent impregnated gypsum board ("wet room boards").
- **Natural stone, concrete, calcium silicate masonry, brick, wood:**  
Test for absorbency, moisture damage and efflorescence (salt edges!). Clean, make good crumbling joints. Coat highly absorbent surfaces with BEECK Protect Primer. 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. Always try out on a test area of critical substrates such as old wooden beams, half timbering or panelling. Precoat, as required, with BEECK Wood Primer, BEECK Bonding Coat Fine (irreversible!) or BEECK Protect Primer.
- **Clay or loam:**  
Clay or loam must be through-dry, firm and stable. Repair cracks with plaster, brush off any sanding grain. Prewetten and prime with BEECK Protect Primer, thinned with 30% water. Always try out on a test area first before using on clay or loam!
- Brush **firm mineral coatings**, if chalking and highly absorbent, consolidate with BEECK Protect Primer. Rinse off distemper and tempera paint, note and follow listed building conservation specifications! Clean emulsion coatings, try out on a test area. Remove oil paint, lacquer and latex coatings or renovate in proper style by using BEECK stand oil paints.
- **Unsuitable substrates** are efflorescent, organic and damp substrates, e.g. plastics, metals and areas with hygroscopic or rising damp. Pretest when using on loam, clay or wood.
- **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

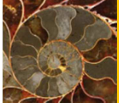
Check substrate suitability as required (see 2.1 and 2.3). Pay particular attention to the absorbency, strength and texture of the respective substrate. Try out on a test area before using on high quality and critical surfaces. Ensure that the product is used by qualified persons only.

- Note and follow the listed building conservation specifications for historically valuable building materials.
- 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 Protect Primer uniformly with a powered mixing paddle.
- Add 10 % – 30 % water to make it optimally coatable.
- Do not use on hot surfaces.
- Minimum application temperature: +8°C
- Drying time: at least 12 hours per coat
- Removability: Wetten BEECK Protect with hand-hot water, leave it to take effect for a few minutes and clean with a sponge and brush. Rinse with clean water. A primer coat with BEECK Protect, Fine or Coarse, in White is recommended to ensure pore-deep removability of full colour and tinted coatings.

### 2.4.3. Application

With roller, brush or using an airless spraying method.

- **Application with roller or brush:**
  - Apply uniformly and thickly, to saturate substrate
  - Carefully spread surplus product on the surface with a brush.
  - Thin product with 10 % – 30 % water, depending on the absorbency, structure and texture of the substrate.
- **Spraying method (airless):**
  - Nozzle: 0.23 mm / 0.009 inch
  - Always sieve the product before use.
  - Apply uniformly and as a thin coat, then use a brush to lay-off.



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### 3. Application Rate and Container Sizes

The application rate, i.e. the quantity required for smooth, absorbent substrates is approx. 0.10 L BEECK Protect Primer per m<sup>2</sup>. Try out on a test area on site to determine substrate-related application rate differences.

Container sizes: 5 L / 12.5 L

### 4. Cleaning

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

### 5. Storage

Stored cool and frost-free, BEECK Protect Primer can be kept for at least 12 months. Use up opened containers 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. May cause sensitisation of susceptible persons. May produce an allergic reaction. 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.