# BEECK Calcidin *historic*

**Easy-to-use lime paint for interior and exterior use**

## 1. Product Properties

Lime-based paint with excellent building physics properties that regulates moisture, for open-pored finishes on lime-compatible substrates for both interior and exterior use. The chemical process of carbonation ensures low stress, with a bactericidal effect due to its natural alkalinity. Ideal for historic lime plasters in the conservation of listed buildings. Gives historic buildings a genuine lime character. Product for commercial use only.

### 1.1. Composition

- Slaked lime filled with finely balanced marble powder.
- Cellulose derivatives for improving technical properties.
- Free from synthetic resins, preservatives and white pigment titanium dioxide.

### 1.2. Technical properties

#### 1.2.1. Overview

- For interior and exterior use
- Good dry coverage and efficient to apply
- Reversible in terms of monument preservation
- Matt with luminous transparent lime lustre
- Capillary-active and moisture-regulating
- Highest carbon dioxide permeability
- Non-flammable, free from electrostatic charge
- Bactericidal due to natural alkalinity

#### 1.2.2. Important building physics characteristics

| *Parameter* | *Value* | *Conformity* |
|---|---|---|
| Density $_{20°C}$: | 1.4 – 1.5 kg / L | |
| pH value $_{20°C}$: | approx. 12.6 | |
| $s_d$ value ($H_2O$): | ≤ 0.01 m | |
| Flammability class: | A2 nonflammable | EN 13501-1, DIN 4102 |
| VOC content (max.): | 0 g / L | ChemVOCFarbV Cat. A / c |

#### 1.2.3. Colour

- Lime White
- Can be tinted in pastel colours with BEECK Full Tone Lime Concentrate (max. 10 %), or with lime-compatible pigments.
- Due to the system and substrate, a mottled appearance is possible. Pre-test on the original substrate.

## 2. Use

### 2.1. Substrate requirements

- The substrate must be clean, dry, solid, resistant to saponification and load-bearing and free from efflorescent and separating substances. Apply exclusively to porous, absorbent, water-wettable, lime-compatible substrates. Carefully repair chippings, cracks and defects in the same type and structure.
- On critical and visually demanding surfaces and in grazing light, ensure uniform substrates and careful application.

### 2.2 Brief information on the standard system

- Typically lime in two to three thin coats, to be determined by sample surface. Pre-wet the substrates.

### 2.3. Substrate and preparatory treatment

- ***(Air) lime plaster (PI, CSI-II), well wettable with water:***
  Grind or etch off sintered skin if necessary. Carefully repair chippings to the same type and structure.
- **Load-bearing lime coatings:**
  Clean, brush off chalking. Consolidate chalking paint residues and friable but stable substrates with BEECK Fixative, diluted with 2 parts water. Thoroughly wash off paste residues, glue and tempera paints.
- **Unsuitable substrates** include gypsum plaster and plasterboard, film-forming paints such as oil, latex, dispersion, silicone resin and silicate paints, as well as plastics, metals and wood-based materials.
- **Defective substrates** require a differentiated approach. Take care with efflorescent and saponifiable substrates. Treat surfaces exposed to salt and moisture with a renovation plaster.

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### 2.4. Application instructions

#### 2.4.1. General information

Check the suitability of the substrate. Pay attention to the absorbency, strength and structure of the substrate. Ensure qualified application. BEECK Calcidin *historic* is designed for professional lime coatings in the preservation of historic buildings, as well as for healthy, sustainable construction. Sampling on original substrates is recommended. Depending on the substrate, room climate and application, colour variations, chalking and sintering may occur. These effects are typical of lime and are expressly not a product defect.

- Carefully cover surfaces not to be treated - especially glass, ceramics, baseboards, expansion joints, paintwork and anodised surfaces - and protect them from splashes.
- Provide personal protective equipment. Protect skin and eyes, wear safety goggles/face protection, see safety instructions! When spray-applying, do not inhale spray mist; install an external air supply.
- Stir BEECK Calcidin *historic* thoroughly with an electric stirrer before use.
- Minimum processing temperature: +6°C. Air exchange (carbon dioxide) promotes carbonation. Do not apply in direct sunlight or on hot surfaces. Protect fresh coatings from rain; hang up scaffolding sheeting.
- Drying time: at least 24 hours per coat, only recoat wipe-dry coats.

#### 2.4.2. Application

Using soft mineral paint brushes, apply in thin layers, without visible brush marks and evenly, in a criss-cross pattern, in accordance with the rules of the lime-washing technique. Blend the edges seamlessly with the main surface, working quickly wet-on-wet. Avoid overlaps and areas where the paint has started to dry, even across scaffolding sections.

- Pre-wet the substrate and allow it to dry until it is slightly damp. Dilute BEECK Calcidin *historic* with at least 15 % water; if the surface is highly absorbent, dilute the primer coat with an additional 10 % water to prevent the paint from ‘burning’. As is usual with lime paints, the coats appear translucent and milky whilst wet; the opacity only develops during drying.
- Apply two to three coats at intervals of at least 24 hours; determine this by testing on a sample area.
- Apply tinted coats with particular care and ensure the substrate is even; pretest under site conditions. Maximum tinting to pastel strength; sieve out any pigment lumps before application.

### 3. Consumption and Container Sizes

Consumption is approx. 0,25 – 0,6 kg BEECK Calcidin *historic* per m² in total. Determine the number of coats and exact consumption values by testing on site.
*Container size:* 20 kg

### 4. Cleaning

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

### 5. Storage

Shelf life is at least 12 months if stored cool and frost-free. Cover any opened containers with a little water, sieve before further processing and use as soon as possible. Protect from frost, heat and direct sunlight.

### 6. Hazard notes, safety instructions and disposal

Observe EC safety data sheet. Danger! Contains calcium dihydroxide. May cause respiratory irritation. Causes severe skin burns and eye damage. May cause respiratory irritation. Keep out of the reach of children. Wear eye protection, face protection, protective gloves. For commercial/industrial use only. Dispose of contents and container in accordance with local and national regulations.

### 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.

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