

BEECK LIMEWASH

Refined limewash acc. to VOB DIN 18 363 / 2.4.1 with the luster effect typical for lime.



Ranges of Application:

BEECK LIMEWASH is preferably used for interior coatings in historical buildings, vaults and basements with a high humidity of the air. Best results are obtained with fresco technique, i.e. the coating of still fresh, humid lime plaster. Due to its natural bactericidal effect it is also ideal for stables. Since dried limewash is only conditionally washproof it is less appropriate for high traffic and living areas. Therefore recommended instead, depending on surface and degree of use: BEECK PURE CRYSTALLINE FINISH, BEECK QUARTZ PAINT or AGLAIA WASHABLE DISTEMPER.

Processing:

Carefully stir up BEECK LIMEWASH before use.

Depending on the surface, thin 1 part BEECK LIMEWASH with 2 to 3 parts water. Apply two to three coats and allow each layer to dry for at least 12 hours. Apply crosswise, extremely sparingly and in thin layers, using a soft mineral paint brush. Wet absorbent surface prior to application and allow to dry until mat-wet. Use on open-pored mineral surfaces only, see Surface and Pretreatment.

Minimum temperature: +5°C air and surface during processing and drying. Do not use on heated surfaces.

Technical Features:

Unlike organically bound wall paints such as synthetic dispersions, BEECK LIMEWASH does not set physically by „bonding“, but through carbonatation – the chemical reaction of the calciumhydroxide binder when taking up carbon dioxide from the atmosphere. Therefore, BEECK LIMEWASH does not form film which compares it to silicate paints. BEECK LIMEWASH has excellent diffusion and absorption qualities that provide ideal building physics properties:

Water absorption and water-vapor diffusion characteristics:

W_{24} -value: 1 kg/(m²h^{1/2})
 s_d -value (H₂O): < 0.02 m

Physical/Technical Characteristics:

Density: 1.35 g/cm³
 pH value: 11
 Dynam. viscosity: 3,000 mPas

BEECK LIMEWASH has relatively high covering qualities. It is, therefore, very economic-in-use. Rub resistant acc. to DIN 53 778. Biocidal and mildew resistant due to natural alkalinity. Non-flammable acc. to DIN 4102/A 2.

Color tone:

Natural white. Can be toned to pastel intensity using limeproof (!) pigments of the AGLAIA POWDER PIGMENT PROGRAM (see Color Chart).

First, wet pigments in lime milk, then carefully stir in. If necessary, sieve before use.

Drying:

Safe to recoat at the earliest after 12 hours. A high humidity of the air is important for the carbonatation and a non-chalking drying.

Yield:

On smooth, normally absorbent surfaces: approx. 0.03 l BEECK LIMEWASH per coat and m².

Available Sizes:

12.5 l.

Cleaning:

Clean appliances, tools and clothes with water immediately after use.

Storage:

Lasts virtually unlimited when stored cool and free of frost in the airtight sealed original container.

Composition:

Limewash from marble and hydrate of white lime. Low content of organic additives and white pigment titanium dioxide (each approx. 1%).

Surface and Pretreatment:

General Requirements:

The surface must be clean, solid, coatable and free of efflorescing substances. Suitable only for porous, absorbent mineral surfaces such as lime plasters that are not water-repellent. Check new plasters for dryness and stability or apply by fresco technique. Touch up open spaces and flaws to match style and structure. BEECK LIMEWASH is especially suitable for lower traffic, even unheated rooms with a constantly high humidity of the air such as historical vaults, basements or stables.

BEECK LIMEWASH

When used outdoors, limewashes may require a high degree of maintenance, especially when directly exposed to rain and high air pollution (sulfur!).

Recommended for outdoor use: BEECK PURE CRYSTALLINE FINISH, a pure silicate paint without organic contents acc. to VOB DIN 18 363 / 2.4.1. Extremely silicification-active, durable and non-fading in more than 300 typical mineral colors.

Suitable surfaces:

► Lime plaster (Plc), Lime based cement plaster (PII), Cement plaster (PIII):

To fresh plasters apply in fresco technique. Check plasters for sinterskin (glass-like glossy, waterproof surface). If any, sand to make the plaster absorbent or etch using BEECK ETCHING FLUID thinned with approx. 3 to 5 parts water. Apply by brush and after a few minutes rinse off with plenty of water. Wet absorbent surfaces before applying lime coatings and allow to dry until mat-wet.

► Natural stone, Brick, Lime sandstone:

Carefully clean or brush and check for coatability, absorbency and efflorescences (such as salt marks). Touch up crumbly stones and joints. Wet surface before applying lime coatings and allow to dry mat-wet. Make samples before applying to critical surfaces.

► Old lime coatings:

Brush, wet and allow to dry mat-wet.

Completely wash off water-soluble lime or tempera paints. Etch or blast old artificial resin based coatings down to the pores. Check the thus exposed surface for suitability regarding lime coatings.

► Clay:

Carefully wet and allow to dry mat-wet. Recommended for non-chalking, hard-wearing coatings: AGLAIA WASHABLE DISTEMPER, a powder paint from marble lime hydrate and milk casein. Provides breathing, abrasion-resistant coatings that are ideal from both a biological building and a preservation of monuments point of view for private, industrial and commercial buildings.

Unsuitable surfaces:

Gypseous surfaces, e.g. gypsum plaster (PIV), lime based gypsum plaster, gypsum and fibrous plaster boards.

Old film forming coatings, e.g. oil, latex or artificial resin coatings.

Organic surfaces, e.g. plastics, wood and wood based building materials (MDF boards etc.)

Deficient surfaces require a special treatment.

Unsuitable are surfaces that tend to efflorescences or that are not alkali-resistant. The base e.g. of historical buildings exposed to salt should be renovated using a renovation plaster system acc. to WTA¹⁾ guidelines.

Further treatment with BEECK QUARTZ FILLER and BEECK PURE CRYSTALLINE FINISH.

¹⁾WTA Scientific-Technical Association for Building Maintenance and Monument Preservation, non-profit organization.

Auxiliary products:

BEECK ETCHING FLUID for removal of sinterskin from new plasters.

BEECK QUARTZ FILLER P fiber-reinforced powdered slurry additive for filled base coats.

Mix 1 container (12.5 l) BEECK LIMEWASH with 2 kg BEECK QUARTZ FILLER P and thin with 30 to 35 liters water. Apply sparingly using a mineral paint brush.

Safety Instructions and Disposal:

► Hazard Class: not subject to identification requirements under Toxic Chemicals Ordinance/EC Directive.

BEECK LIMEWASH is alkaline. Protect skin and eyes from contact. Carefully cover all surfaces not to be treated, especially glass, ceramic and anodized surfaces. In case of contact, immediately rinse with plenty of water. Keep out of the reach of unauthorized persons.

Disposal of product remainders according to legal regulations. Disposal of empty containers through resource collection points.

► Waste Code: Product and Product Remainers (European Waste Code): 080199 (Coatings).

It is our objective to provide, through this technical information, advice based on our skills and practical experience. Any instructions given are non-binding and do not release the user from his or her liability to check for product suitability and application methods him/herself with regard to the surface used. Technical modifications may result from product development. Upon publication of a revised or new version, these instructions will automatically lose their validity. The details contained in the EU Safety Data Sheets in their current form dictate liability for classification in terms of the Hazardous Substances Regulation, disposal etc.