BEECK'sche FARBWERKE

Technical Information Sheet, Rev. 02/2001

BEECK QUARTZ FILLER

Fiber-reinforced silicate primer for bridging hair cracks and for levelling out surface structure discrepancies. Ideal preparation for colored silicate glazing technique. Especially silicification-active. Allows mineral coating procedure on surfaces that with view to building physics and look would otherwise only be limitedly suitable.

Ranges of Application:

BEECK QUARTZ FILLER is used as a filling, crack-bridging primer coat for silicification-active surfaces with hair cracks and minor structural discrepancies. Suitable for lime and cement plasters, concrete, porous natural stone, brick and lime sandstone, indoors and outdoors, see Surface and Pretreatment.

Further treatment with BEECK PURE CRYSTALLINE FINISH with addition of BEECK QUARTZ FILLER, or with one-component BEECK silicate paints, e.g. BEECKOSIL. Also absolutely perfect as a white slurry glaze primer for BEECK Silicate Glazing Technique indoors and outdoors. For more details refer to our Technical Application Guide BEECK Silicate Glazing Technique. Also to be used as a slurry additive for base and intermediate coatings with the BEECK PURE CRYSTALLINE FINISH system.

Processing:

▶ Carefully stir up BEECK QUARTZ FILLER before use and thin with 5% to max. 20% BEECK FIXATIVE depending on the surface to be coated. Apply evenly with a soft mineral paint brush. Make sure to apply uniformly in conformance with the structure, especially if the surface is being prepared for subsequent color glazing. Application once or twice depending on surface and requirements. Minimum temperature: +5°C air and surface during processing and drying. Do not use on heated surfaces.

▶ As a slurry additive to BEECK PURE CRYSTALLINE FINISH:

For the base coat: Mix and wet 25 kg BEECK POWDERED PIGMENTS with 30 kg BEECK FIXATIVE and add 40 kg BEECK QUARTZ FILLER while stirring. Thin with another 5 to 15 kg BEECK FIXATIVE and apply evenly and lap-free by brush.

For intermediate coat: Mix and wet 25 kg BEECK POWDERED PIGMENTS with 30 kg BEECK FIXATIVE and add 20 kg BEECK QUARTZ FILLER while stirring. Thin with another 2 to 5 kg BEECK FIXATIVE and apply evenly and lap-free by brush.

Technical Features:

BEECK QUARTZ FILLER is characterized by high filling qualities and through fiber reinforcement ensures perfect bridging of fine checkings and hair cracks. Excellent silicification activity, thus extremely porous, durable and of mineral nature. Non-film forming. Best compatibility with porous mineral surfaces and subsequent wettable silicate coatings.

Water absorption and water-vapor diffusion characteristics:

W_{24}-value:	0.3 kg/(m²h$^{1/2}$)
s_d-value (H_2O):	0.02 m

Physical/Technical Characteristics:

Density:	1.67 g/cm³
pH value:	11
Dynam. viscosity:	11,000 mPas

Color tone:

Natural white.

Drying:

Under normal conditions, safe to handle after about 2 hours, safe to recoat no sooner than after 12 hours. Protect fresh coatings from rain, e.g. by using scaffold tarpaulin.

Yield:

On smooth, normally absorbent surfaces: approx. 0.25 to 0.40 kg per coat and m². On rough, porous surfaces: considerably more. Make samples.

Available Sizes:

8 kg and 20 kg.

Cleaning:

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

Storage:

Lasts at least 12 months when stored cool and free of frost.

Composition:

Solvent-free potash waterglass based silicate primer coat, enriched with quartzous and calcareous fillers, coarse grain approx. 0.4 mm. Pigmented with only very small quantities of titanium dioxide and barite. Low organic content due to reinforcing cellulose fibers and approx. 3.5% artificial resin. Biocide-free. Recovery of potash waterglass from water, quartz sand and potash.

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Surface and Pretreatment:

General Requirements:

The surface must be clean, dry, solid, coatable and free of efflorescing salts. Check new plasters for sufficient dryness and stability. Carefully touch up open spaces and flaws to match style and structure. Coat the entire surface of repaired facades with BEECK QUARTZ FILLER.

Suitable surfaces:

▶ Lime plaster (PIc), Lime based cement plaster (PII), Cement plaster (PIII):

Use BEECK ETCHING FLUID to remove sinterskin from new plasters and to clean old plasters. Thin BEECK ETCHING FLUID with 3-5 parts water and apply by brush. Rinse off after a few minutes using plenty of water.

Prefixate absorbent plasters with BEECK FIXATIVE thinned with 2 parts water. Solidify superficially crumbly or sanding, but coatable plasters by applying BEECK FIXATIVE, thinned with 5 parts water, several times to saturation.

▶ Prime gypsum plasters (PIV) using BEECK BONDING COAT.

▶ Natural stones:

Do not etch, but clean with a neutral cleanser. Check for coatability, absorbency and efflorescences. Prefixate with BEECK FIXATIVE thinned with 2 parts water. Flow coat slightly efflorescing surfaces to saturation with BEECK SILANE PRIMER N.

▶ Lime sandstone, Brick:

Carefully clean with high-pressure water jet using hot water. Touch up crumbly stones and joints. Prefixate with BEECK FIXATIVE thinned with 2 parts water. Flow coat slightly efflorescing surfaces with BEECK SILANE PRIMER N to saturation.

▶ Aerated concrete:

Indoors, prime with BEECK INSULATING PRIMER thinned with 1 part water. Outdoors, flow coat with BEECK SILANE PRIMER.

▶ Exposed concrete, Fibrocement:

Clean new concrete with BEECK MOLD OIL REMOVER thinned with 4 to 5 parts water. Clean old, dirty concrete and fibrocement with BEECK CONCRETE AND STONE CLEANSER thinned with 2 to 5 parts water.

Prime strongly absorbent surfaces with BEECK FIXATIVE 2000 thinned with 2 parts water or alternatively use BEECK CONCRETE PRIMER for a carbonatation inhibiting effect.

Fibrocement boards tend to efflorescences and stain formation due to a varying absorbency. Therefore, prime with BEECK SILANE PRIMER.

▶ Chalking silicate or lime coatings:

Carefully clean, brush and solidify with BEECK FIXATIVE thinned with 2 parts water.

Strip or blast old artificial resin based coatings down to the pores. Further treatment with BEECK BONDING COAT or directy with BEECK QUARTZ FILLER. Make samples.

Deficient surfaces require a special treatment. Unsuitable are surfaces that are gypsum or clay based, non-porous, strongly water-repellent or that have been treated to form film. Inferior parts of historical buildings exposed to salt should be renovated using a renovation plaster system acc. to WTA[1)] guidelines.

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

Further treatment with BEECK PURE CRYSTALLINE FINISH adding BEECK QUARTZ FILLER or alternatively with BEECKOSIL.

Safety Instructions and Disposal:

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

BEECK QUARTZ FILLER 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 Remainders (European Waste Code): 080199 (Coatings).

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