

Silicate Render HP KR

mineral decorative render, with scraped render finish, without biocide film preservation, for exterior use



Field of application

For creating decorative, mineral surfaces on exterior silicifying mineral substrates, e.g. even exterior plaster surfaces (compressive strength category as well as on mineral reinforcement plasters in the Brillux ETIC system.

Properties

- no biocidal agents, against algal and fungal attack (Hybrid Protect)
- adheres well to the substrate by means of silification
- based on silicate in accordance with DIN EN 15824 with organic stabilizers
- weather-resistant
- exceedingly diffusible
- easily texturable
- for exterior use
- surface active, hydrophilic, creates an even moisture balance
- in system build-up with Ultrasil HP 1901, protects against early algal and/or fungal infestation
- certified as a top coat in the Brillux ETIC system

Material description

Standard color	0095 white		
	A selection of additional color shades (similar to Ultrasil HP 1901) is available as factory tinting.		
Types and texture	Silicate Render HP KR K2 3633	Scraped render finish	1,5–2,0 mm ^{*)}
	Silicate Render HP KR K3 3643	Scraped render finish	2,5–3,0 mm ^{*)}
			^{*)} grain structure
Base material	Potassium silicate with organic stabilizers		
Density	ca. 1,8–2,0 g/cm ³		
Packaging	25 kg		

Use

Thinning Depending on the substrate absorbency and the situation on site, dilute slightly with water, as required.

Tinting Do not tint.

Application Before application, stir Silicate Render HP KR well with a powerful stirrer (at least 900 watts) and a right-handed spiral stirring rod (plaster stirring rod). Apply with a stainless steel smoothing trowel or an appropriate worm conveyor pump machine. Smooth down the applied render to its grain thickness and, depending on the desired texture effect, abrade it with the Plastic Trowel 3791 or the Polyurethane Float 3781. To avoid lap marks, apply the render wet-in-wet. For large areas in particular, we recommend employing a sufficient number of workers.

Consumption Silicate Render HP KR K2 3633 ca. 3,4 kg/m²
Silicate Render HP KR K3 3643 ca. 4,0 kg/m²
Determine the exact consumption by means of a test application on the object to be coated

Application temperature Do not apply at an air or substrate temperature below +8 °C or above +30 °C. The temperature limits must be complied with even during the curing time.

Tool cleaning Clean tools immediately after use with water.

Drying (+20°C, 65% relative humidity)

Surface dry after approx. 24 hours. Completely dry after approx. 5 days. Ensure a minimum drying time of 12 hours between the individual coatings (primer, intermediate coat and render coating). Coat Silicate Render HP only after a sufficient curing time of approx. 5 days, depending on the meteorological conditions. Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

Store in a cool, dry and frost-free location. Use the material within 12 months.

Declaration

Product-code M-SK01
Comply with the specifications in the current Safety Data Sheet.

Substrate preparation

The substrate must be silicifying, level, solid, dry, clean, loadbearing and free from efflorescence, sinter layers, separating agents, corrosion-promoting components or other intermediate layers affecting the adhesion. Dampness must be prevented from penetrating through the render, e.g. via connections, cracks, etc. Check existing coatings for their suitability, load-bearing capacity and adhesive properties. Remove defective and unsuitable coatings thoroughly and dispose of them in accordance with the applicable regulations. Clean areas infested with fungus or algae thoroughly and treat them with Universal Disinfectant 542*. (*Use biocide products with care. Always read the label and product information before use.) Treat replastered areas with a fluorine primer. Coat reinforcement layers after allowing sufficient time for the curing and drying times (at least 3 days, at +20 °C, 65% relative humidity). Apply a prime and/or intermediate coat to the substrate as required. Also see VOB Part C, DIN 18363, Section 3.

Render coating, exterior

Substrates	Primer	Intermediate coat ²⁾	Render coating	Top coat
Mineral reinforcement layers in the Brillux ETIC system		Silicate-Brush-On Filler 3639 (only for colored render coating)	Silicate Render HP KR ²⁾	2x Ultrasil HP 1901 in the color shade of the render coating ³⁾
Untreated, normal and low-absorbent exterior substrates, e.g. plaster compressive strength category CS II–CS IV) ¹⁾		Silicate-Brush-On Filler 3639 in the color shade of the render coating		
Highly absorbent substrates, e.g. exterior plaster (compressive strength category CS II–CS IV) ¹⁾ , intact mineral coatings	2x wet-on-damp Fondosil 1903, diluted 1 : 1 with water			

¹⁾ Minimum compressive strength > 2,0 N/mm²

¹⁾ For a colored render coating, tint the Silicate-Brush-On Filler 3639 in accordance with the render color shade.

²⁾ The render coating and the top coat must always have the same color shade.

Notes

Cover other areas	Carefully cover the surrounding surfaces, especially glass, brick and natural stone.
Contiguous surfaces	On contiguous areas, use only materials of the same production batch or mix the required quantity of materials.
New mineral substrates	Before coating wait at least 14 days, preferably 4 weeks, for the curing and drying of new mineral substrates, especially plaster surfaces (lime-cement and cement mortar). Depending on weather conditions and the season, the drying process may take longer.
Colored coating on ETICS	Colored coatings on ETIC systems with a light reflective value ≥ 20 can be created without restrictions. If colors with a light reflective value < 20 are to be applied, the color shade's usability must be clarified in consultation with the Brillux consulting service.
Surface irregularities after drying	Due to the chemical curing process, color and surface irregularities can occur depending on the weather conditions. Such effects are not technical or functional defects, and no complaints are accepted in this context.
Protecting the coating	During use and while drying and curing, the surfaces must be protected from moisture impact, e.g. rain, but also from excessively rapid dehydration, e.g. due to strong winds, direct sunlight, etc. Do not apply to heated-up substrates. Use protective tarpaulines as required.
On horizontal surfaces	Do not use render coatings on horizontal surfaces. Projecting building components, e.g. window sills, molding, wall copings, must be covered properly to prevent streaks of dirt and moisture penetration.
Further information	Follow the instructions on the data sheets of the products used.

Remark

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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