

Silicate Render KR



Mineral decorative render, in scraped render structure, for exterior use



Farbsystem

Field of application

For obtaining a decorative, weather-resistant surface on silicifying, mineral exterior substrates, e.g., flat exterior plaster surfaces (compressive strength category CS II - CS IV, compressive strength > 2 N/mm²), and in Brillux ETICS Systems. On surfaces with long exposure to dampness (depending on the location and construction, as well as on ETICS) there is a risk of algae or fungal infestation. For these surfaces we recommend using the "Protect Quality" of Silicate Render (see further details about this under Note).

Properties

- for exterior use
- good adhesion to the substrate by silification
- extremely water-vapor-permeable
- easily texturable
- certified in system build-up as a top coat in the Brillux ETIC system
- optionally available for exterior use in Protect quality (film protection against algal and fungal infestation on the coating)

Material description

Standard color shades	0095 white Light color shades can be mixed using the Brillux Color System. Additional color shades available on request.
Types and texture	Silicate Render KR K1 3657 scraped render structure Silicate Render KR K2 3631 scraped render structure Silicate Render KR K3 3641 scraped render structure
Base material	Potassium water glass with organic stabilizers
Density	Approx. 1.8 to 2,0 g/cm ³
Packaging	0095 white: 25 kg Color system: 25 kg

Use

- Thinning** If necessary, depending on the surface porosity and object location slightly with water.
- Tinting** Do not tint.
- Compatibility** Can only be mixed with materials of the same type and those specified in this Data Sheet.
- Application** Stir Silicate Render KR thoroughly before use with a powerful stirring device (at least 900 Watts) and right hand spiral stirring bar (render stirring bar). The product should be applied with a stainless steel trowel or with a suitable worm pump. Smooth down the applied Silicate Render to its grain thickness. Depending on the wished structure rub down with the Synthetic Trowel 3791 or the Polyurethane Trowel 3781. To avoid overlapping apply the render wet on wet. For larger areas apply render with more workers.
- Consumption**
- | | |
|----------------------------|-------------------------------|
| Silicate Render KR K1 3657 | approx. 3,0 kg/m ² |
| Silicate Render KR K2 3631 | approx. 3,4 kg/m ² |
| Silicate Render KR K3 3641 | approx. 4,0 kg/m ² |
- Determine the exact consumption by means of a test application on the object to be coated.
- Application temperature** Do not apply if the air and object temperature is below +8 °C or higher than +30 °C. These 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 about 24 hours. Dried through after about 5 days. A minimum drying time of at least 12 hours should be kept between the individual coatings (priming, intermediate coating and render coating). Allow longer drying times at a lower temperature and/or higher air humidity.

Storage

Store in a cool, dry and frost-free place. Reseal opened containers tightly. Use material within 12 months.

Declaration

- Product code** BSW40
Comply with the specifications in the current Safety Data Sheet.

Substrate preparation

The substrate must be capable of being silified, solid, dry, clean, load-bearing and free from efflorescence, sinter layers, separating agents, corrosion promoting components or other compounds affecting intermediate layers. A background moisturizing of the render must be excluded e. g. cracks, connections 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. Lightly sand and clean smooth, compact substrates. 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. Allow reinforcement plaster to dry for at least 3 days (at +20°C, 65% rel. humidity) before applying Silicate Render. Apply a prime and/or intermediate coat to the substrate as required. Also see VOB Part C, DIN 18363, Section 3.

Render coating, exterior

Substrate	Prime coat	Intermediate coat ^{2) 3)}	Top coat
Reinforcement plaster, e.g. in Brillux ETICS ¹⁾		Silicate Brush Filler 3639	Silicate Render KR ⁴⁾
Untreated, normal and slightly porous surfaces, e.g. exterior plaster (compressive strength category CS II–CS IV) ⁵⁾			
Highly absorbent substrates, e.g. exterior plaster (compressive strength category CS I–CS IV) ⁵⁾ , intact mineral coatings	2x wet-on-damp Fondosil 1903, diluted 1 : 1 with water		

- 1) Do not use Silicate Render KR on Qjusion Organic 3712 or Qjusion Organic SK 3726.
- 2) Not required with a white top coat Silicate Render KR (scraped render structure) and with reinforcement plaster with ETICS Powder Adhesive 3550.
- 3) With colored top coat use Silicate Brush Filler 3639 in conjunction with the tinted render color.
- 4) When applying an additional colored coat of silicate facade paint, the render coating should already be tinted to a coordinated color shade.
- 5) Minimum compressive strength > 2,0 N/mm²

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. 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.
As "Protect" quality	Silicate Render KR comes with preservatives and should only be used for exterior applications for this reason. The preservatives used and, in particular, the quality labeled as "Protect" minimize or delay the risk of algae and fungal infestation. If, additionally, preventive protection is required additionally, we recommend applying two additional coats using Extrasil 1911 as "Protect Quality", for example. With the current state of the art, a permanent protection against algal and fungal infestation cannot be guaranteed.
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.
Equalizing coat for colored design	In the case of colored render coats, a equalizing coat using Extrasil 1911 should be applied after allowing for a sufficient drying time (approx. 4 to 5 days, depending on weather).
Characteristically structural grains	The additives used in the renders are natural products which may be visible as slightly darker structural grains. This is a typical character and natural feature of render coats. This is no technical or functional defect and must not give rise to any complaints for this reason.
Protection of the coat	During processing, drying and hardening, the surfaces should be protected against sun impact, strong wind and moisture impact, e.g. by covering them with a tarpaulin.
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 in 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.

Brillux
Weseler Straße 401
48163 Münster
GERMANY
Phone +49 251 7188-0
Fax +49 251 7188-105
info@brillux.de
www.brillux.com