

Silcosil KR

Silcosil

**silicone-modified render in scraped finish texture,
weather-resistant, for exterior use**

Properties

Silcosil KR (scraped finish render texture) is weather-resistant, impact rain proof and diffusible. Ready for use, flexible texturability and resistant to aggressive environmental impact. System-tested as a topcoat in the Brillux ETIC system. Silcosil can, if required, be ordered as "Protect Quality" with film preservation against algae and fungal attack.

Field of application

For obtaining decorative, weather-resistant surfaces in the Brillux ETIC System. Additionally usable on, for example, flat exterior plaster surfaces (compressive strength category CS II - CS IV, compressive strength $>2 \text{ N/mm}^2$), finished components and intact emulsion paints.

On surfaces exposed to moisture (depending on location and construction, as well as in the case of highly heat-insulated facades) there is a risk of algae and fungal attack. For such surfaces we recommend using Silcosil in "Protect Quality" (for further information, refer to Note).

Material description

Standard color: 0095 white. Bright colors can be mixed with the Brillux Color System. Other colors available on request.

Base material: Silicone-resin emulsion in combination with vinyl acetate-ethylene-copolymer dispersion and natural mineral supplements such as quartzes and calcites etc.

Density: approx. 1.64 g/cm^3

Types: see table on page 2

Packaging:

0095 white:

25 kg, 1,800 kg wet silo*,
900 kg refill silo*

Color system: 25 kg

* When there is the risk of frost, use buckets only.

Use

Thinning

If necessary, slightly dilute with water.

Tinting

Up to max. 2 % with Silicone Facade Paint 918, colored.

Compatibility

May only be mixed with materials of the same type and the materials specified for this purpose in this data sheet.

Application

Before application, thoroughly stir Silcosil KR using a high-power stirrer (min. 900 Watt) and right-handed spiral. The material is applied using a stainless steel smoothing tool or a suitable worm conveyor. Level the applied render to grain size and, depending on the required structural effect, float surface using Plastic Smoothing Tool 3791 or Polyurethane Float 3781.

To avoid visible joints, apply render wet in wet. In the case of large surfaces, use a sufficient number of workers for this reason.

Types, structure and consumption

Type	Structure	Grain size	Consumption ¹⁾
Silcosil KR K2 3674	scraped render finish	K 2	approx. 3.0 kg/m ²
Silcosil KR K3 3675	scraped render finish	K 3	approx. 4.0 kg/m ²

¹⁾ Determine exact consumption by way of a test application on the object.

Application temperature

Do not apply if the air and object temperature is below +5 °C or higher than +30 °C. The temperature boundaries are also to be complied with during the curing time. In the case of low temperatures from +1 °C to max. +15 °C and high relative atmospheric moisture (75 % to max. 95 %) we recommend using TempTec 3505. In any case, refer to specifications in Data Sheet 3505.

Tool cleaning

Clean tools immediately after use with water.

Drying (+20 °C, 65 % relative humidity)

Fully dry and ready for coating after approx. 2 to 3 days. Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

Store in a cool and frost-free location. Reseal opened containers tightly.

Declaration

Notes

Contains preservatives.

Water pollution classification

WGK 1, according to VwVwS.

Product code

BSW20.

Comply with the specifications in the current safety data sheet.

Coating build-up

Substrate preparation

The substrate must be level, solid, dry, clean, load-bearing and free from efflorescence, sinter layers, separating agents, corrosion-promoting components or other intermediate layers affecting the adhesion. Penetration of moisture behind the render, e.g. through joints, cracks, etc. must be excluded. 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 then treat them with Universal Disinfectant 542*. (* Use biocides safely. Always read the label and product information before use.) Treat replastered areas with a fluorine primer. Coat reinforcement layers after allowing them to cure and dry properly (at least 3 days, with +20 °C, 65 % r. m.). Apply a prime and/or intermediate coat to the substrate as required. Also see VOB Part C, DIN 18363, Section 3.

Substrates	Prime coat	Intermediate coat ¹⁾	Top coat ²⁾
Reinforcement layers, e.g. in Brillux ETIC-Systems ³⁾		Silicone Render Primer 3644	Silcosil KR in required grain size
normally absorbent and low absorbent substrates, e.g. exterior plaster, intact dispersion paint coat			
highly absorbent substrates, e.g. exterior plaster, chalking dispersion paints	Silicone Substrate Consolidator 916		

¹⁾ In the case of a white top coat on ETICS Reinforcement Plaster ZF-Granit 3535 or ZF-R 3636, no intermediate coat of Silicone Render Primer 3644 is required.

²⁾ In the case of a colored top coat, use Render Primer 3710 in a color matching the color of the render and observe the note "Colored coatings thermal insulation composite system".

³⁾ No intermediate coat with Silicone Render Primer 3644 is required, if the reinforcement is made of tinted ETICS Reinforcement Plaster ZF-Granit 3535 or ZF-R 3636, in a shade similar to the render shade.

Notes

Contiguous surfaces

On contiguous surfaces only use materials of a production or mix the required amount of materials.

New mineral substrates

Allow new mineral substrates, particularly plaster surfaces (MG PII, PIII) to cure and dry properly (at least 14 days, better 4 weeks) before coating them. Depending on weather conditions and season, the drying process may take even longer.

Colored coats in ETICS

Colored final coatings in the thermal insulation composite systems with a lightness reference value ≥ 20 are executable without restrictions. Color tones with a lightness reference value < 20 are executable with the Brillux SolReflex System. Note here the additional information on the practice instruction sheet "Silicone façade paint 918" and on the fact sheet "SolReflex 5tsr".

In "Protect" quality

Silcosil 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 attack.

If, additionally, preventive protection is required additionally, we recommend applying two additional coats using Silicone Facade Paint 918 in "Protect Quality", for example. Subject to the status of the technology, more durable protection against algae and fungal infestation cannot be guaranteed.

Characteristically structural grains

The additives used in the renders are natural products, which, separated according to render coloring, can be discernible as slightly darker or lighter 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.


Horizontal surfaces

Do not use render coats on horizontal surfaces. Projecting components, e.g. window sills, moldings, crests of walls must be covered properly to prevent dirt stains and penetration of moisture.

Further information

Follow the instructions on the data sheets of the products used.

CE Marking

	
<hr/> Brillux GmbH & Co. KG Weseler Straße 401 D-48163 Münster	
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<hr/> EN 15824	
<hr/> Exterior render with organic bonding agents	
Water vapor permeability	V ₁ high
Water absorption	W ₃ low
Adhesive strength	≥ 0.3 MPa
Durability	Permeability rate according to EN 1062-3 ≤ 0.5 kg/(m ² ·d ^{0.5})
Reaction to fire	A2-s1,d0

Remark

This Data Sheet has been prepared taking into account the current applicable German laws, standards, specifications and codes of practice. All details have been translated from the current German version. The contents do not form a legal contract. The user and/or the purchaser is not released from the responsibility of checking that our products are suitable for the proposed use. In addition our Terms of Conditions and Payment apply.

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

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