

Silicon Render KR

Silicon-Putz KR

**KR scraped render,
perfect water vapor permeable,
optimum protection, for exterior use**

Properties

Silicon Render KR is weather resistant and has excellent water repellent properties due to a special binding material combination, which makes it extremely permeable to water vapor and resistant to aggressive environmental influence. Ready to use and can be structured in a versatile way. System-tested as a topcoat in the Brillux ETIC system. Silicone render can, if required, be ordered as "Protect Quality" – supplied from the factory with film protection against algae and fungal attack.

Field of application

For obtaining decorative, weather-resistant surfaces in the Brillux ETIC system. Additionally usable on, for example, exterior plaster (compressive strength category CS II - CS IV, compressive strength >2 N/mm²), finished components and intact emulsion paints.

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 Silicone Render (see further details about this under Notes).

Material description

Standard color: 0095 white.

Can be mixed in bright colors using the Brillux color system.

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. 1.64–1.82 g/cm³ depending on grain size

Types: see table on page 2

Packaging:

0095 white: 25 kg,
Color system (paint mixing equipment): 25 kg

1.800 kg wet silo*,

900 kg refillable silo*

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

Use

Thinning

If necessary, thin slightly with water.

Tinting

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

Compatibility

Only mixable with similar materials and those specified in this Data Sheet.

Application

Stir Silicon 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 Silicon 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.

Types, structure and consumption

Type	Structure	Grain size	Consumption ¹⁾
Silicon-Putz KR K2 3649	scraped render finish	K 2	ca. 3,4 kg/m ²
Silicon-Putz KR K3 3650	scraped render finish	K 3	ca. 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 lower +5 °C or higher than +30 °C. The temperature boundaries are also to be complied with during the curing time. At low temperatures of +1°C up to +10°C and high relative humidity (of min. 75% to max. 95%) we recommend the use of TempTec 3505. Before applying read the contents of the Data Sheet 3505.

Tool cleaning

Clean tools immediately after use with water.

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

Dries through and can be re-coated after about 2–3 days. Allow longer drying times at a lower temperature and/or higher air humidity.

Storage

Cool and frost free. Reseal containers tightly.

Declaration

Note

Contains preservatives.

Water danger class

WGK 1, as specified in VwVwS

Product-Cod

BSW20.

The data in the current Safety Data Sheet applies.

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.

Surface	Priming coat	Intermediate coat ^{1) 2)}	Top coat
reinforcement layers, e.g. in Brillux ETIC Systems		Silicone Render Primer 3644	Silicone Render KR in the desired grain size
normal and slightly ab- sorbent surfaces, e.g. exterior plaster, intact dispersion paint coat- ings			
very absorbent surfac- es, e.g. exterior plas- ter, chalking dispersion paint coatings	Silicone Substrate Con- solidator 916		

¹⁾ In the case of a white top coat on ETICS Reinforcement Plaster ZF-Granit 3535 or ZF-R 3636, no in-
termediate 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 tint-
ed 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 materi-
als.

New mineral substrates

Allow new mineral substrates,
particularly plaster surfaces to
cure and dry properly (at least
14 days, better 4 weeks) before
coating them. Depending on
weather condi-tions 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 refer-
ence 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".

As "Protect" quality

Silicone render comes with
preservation and, for this rea-
son, should only be used for ex-
terior applications. The pre-
servatives used and in particular
those identified as "Protect" min-
imise and delay the risk of algae
and fungal attack.

If, additionally, further preventive
protection is required, we rec-
ommend applying an extra coat
using Silicone façade paint 918
in "Protect Quality".

Subject to the status of the tech-
nology, more durable protection
against algae and fungal infesta-
tion 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 apply render coatings on horizontal surfaces. Parts of buildings that jut out, e.g. window sills, ledges and wall copings, must be properly covered, in order to avoid any water stains and soaking.

Further information

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

CE Marking

	
Brillux GmbH & Co. KG Weseler Straße 401 D-48163 Münster	
11	
EN 15824	
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. Version I

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