

Mineral Lightweight Render KR/R

Mineral-Leichtputz KR/R

KR scraped finish plaster structure/R grooved plaster structure in ETIC system non-combustible A2/ hardly inflammable B1 according to DIN 4102

Properties

Dry mortar made of standardized mineral bonding agents, light mineral additives (different grain sizes) and special treatments. Corresponds to plaster mortar group PII as per DIN 18550. Very adhesive on mineral substrates, easy to apply, long open time and very water-vapor diffusible. System-tested as a topcoat in the Brillux ETIC system.

Field of application

For obtaining decorative, weather-resistant, mineral surfaces in Brillux ETIC systems I, II, III, IV and V in combination with ETICS Powder Adhesion 3550, ETICS Powder Adhesion VZ 3600, ETICS Gluing and Reinforcing Mortar L 3500 or ETICS Light Mortar XL 3532. Can be used on level, mineral substrates, e.g. exterior plaster, (compressive strength category CS II - CS III).

Material description

Standard color: 0095 white. Other colors available upon request.

Base material: Hydraulically standardized bonding agents and potassium silicate.

Bulk density: approx. 1.2 g/cm³ (scraped and grooved finish)

Types: see table on page 2

Packaging:

25 kg sacks,
1,200 kg silo,
600 kg Big-Bag

Use

Addition of water

In the case of KR (scraped plaster finish)

approx. 7 to 8 liters per 25 kg sack.

In the case of R (grooved plaster structure)

Approx. 7 liters per 25 kg sack. Add the same amount of water to each mixture, i.e. ensure uniform consistency.

Tinting

Do not tint.

Compatibility

Do not mix with other types of materials.

Mixing

Using a high-power agitator (min. 900 W) and a right handed spiral or continuous flow mixer, mix light mineral render and water until a clot-free, paste-like mortar is obtained. Allow to mature for approx. 10 minutes, stir again briefly and apply within 2 hours.

Application

Using a stainless steel smoothing tool, apply the mixed render level to grain size and 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.

Light Mineral Render KR / scraped plaster finish can also be applied using suitable worm conveyors and mixing pumps, or conveyed dry by suitable conveyor systems.

Light Mineral Render R / grooved plaster finish cannot be applied using machines.

Types, structure and consumption

Type	Structure ²⁾	Grain size	Consumption ¹⁾
Light Mineral Render KR K2 3664	scraped plaster finish	K 2	approx. 2.3 to - 2.5 kg/m ²
Light Mineral Render KR K3 3622	scraped plaster finish	K 3	approx. 2.7 to - 2.9 kg/m ²
Light Mineral Render KR K4 3669	scraped plaster finish	K 4	approx. 3.7 to - 3.9 kg/m ²
Light Mineral Render KR K5 3632	scraped plaster finish	K 5	approx. 4.6 to - 4.8 kg/m ²
Light Mineral Render R K2 3660	grooved plaster finish	K 2	approx. 1.7 to - 1.9 kg/m ²
Light Mineral Render R K3 3621	grooved plaster finish	K 3	approx. 2.2 to - 2.4 kg/m ²
Light Mineral Render R K4 3670	grooved plaster finish	K 4	approx. 2.7 to - 2.9 kg/m ²
Light Mineral Render R K5 3626	grooved plaster finish	K 5	approx. 3.2 to - 3.4 kg/m ²

¹⁾ Without losses (e.g. transport / shrinkage). Determine exact consumption by way of a test application on the object.

²⁾ Light Mineral Render R / grooved plaster finish cannot be applied using machines.

Application temperature

Do not apply if the air and object temperature is below +5 °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)

Can be coated with Silicate Finish 1811 after approx. 5 days.

In the case of lower temperatures and/or higher atmospheric moisture, allow for longer drying time.

Storage

Store in a cool and dry location. Reseal opened containers tightly. Process the material within 12 months.

Declaration

Water pollution classification

WGK 1, according to VwVwS.

Product code

ZP1.

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, saponification-resistant and free from any efflorescence, sinter layers and separating agents. Penetration of moisture behind the plaster, e.g. through joints, cracks, etc. must be excluded. Check existing coatings for their load-bearing capacity. 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.) Remove non-bearing mineral coats, e.g. lime and silicate paint coats, mechanically. Coat reinforcement layers after allowing them to cure and dry properly (at least 3 days, with +20 °C, 65 % r. h.). Level the uneven substrates using mineral mortar, e.g. plaster of plaster mortar group PII. Also see VOB Part C, DIN 18363, Section 3.

Substrates	Prime coat	Intermediate coat	Top coat ¹⁾
Reinforcement layers, e.g. in Brillux ETIC systems with ETICS Powder Adhesion 3550, ETICS Powder Adhesion VZ 3600, ETICS Adhesion And Reinforcement Mortar L or ETICS Light Mortar XL 3532			Light Mineral Render KR or R, graining as required
untreated, normally and low-absorbent mineral plaster (compressive strength category CS II - CS III)		Render Primer 3710	
highly absorbent substrates, e.g. old plaster	depending on requirements, Lacryl Deep Penetrating Primer ELF 595 or Deep Penetrating Primer 545		

¹⁾ In the case of colored coating, always apply a equalizing coat using Silicate Finish 1811 in color of render.

Notes

Cover surfaces

Cover adjacent areas thoroughly, in particular glass, clinker brick and natural stone.

Contiguous surfaces

On contiguous areas, only use materials of the same production batch or mix the required amount of materials.

Colored coats in ETICS

Colored top coats in ETIC systems with a brightness reference value ≥ 20 can be realized without any restrictions. If hues with a brightness reference value < 20 are to be used, contact the Brillux consulting service to clarify if the hues are suitable.

As "Protect" quality

Light Mineral Render KR or R cannot be supplied with film preservation against algae and fungal attack. To protect the coating against algae and fungal attack, we recommend applying a leveling coat using Silicate Finish 1811 in "Protect" quality.

Surface shading after drying

Depending on the weather conditions, mineral, hydraulically hardening renders may have a "cloudy shadowy" surface appearance when dry. This is no technical or functional defect and must not give rise to any complaints for this reason. To obtain a uniform surface, we recommend applying an additional leveling coat. This should be done in any case in the case of colored render coats.

Equalizing coat after sufficient drying

The equalizing coat can be applied as soon as the render has cured sufficiently, i.e. after approx. 5 days (depending on weather conditions). For colored design of white renders, two coats of Silicate Finish 1811 are required.

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 coats

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.

If using the material below ground level, e.g. skirting, basements, always take additional protection measures.


In the case of 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 Light Mineral Render KR

<div style="text-align: center;">  </div> <div style="text-align: center;"> <hr/> Brillux GmbH & Co. KG Weseler Straße 401 D-48163 Münster 13 <hr/> </div> <div style="text-align: center;"> EN 998-1:2010 precious plaster mortar CS II for interior and exterior use 3622-998-01 </div>	
Coefficient of vapor permeability	$\leq 20 \mu$
Water absorption	W2 low
Adhesive strength on concrete	$\geq 0,08 \text{ MPa}$
Durability	NPD
Thermal conductivity Light Mineral Plaster KR	$(\lambda_{10, \text{ dry, mat}}) \leq 0,45 \text{ für } P = 50\%$ (table value) $(\lambda_{10, \text{ dry, mat}}) \leq 0,49 \text{ für } P = 90\%$ (table value)
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.

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

CE Marking Light Mineral Render R

<div style="text-align: center;">  </div> <div style="text-align: center;"> <hr/> Brillux GmbH & Co. KG Weseler Straße 401 D-48163 Münster 13 <hr/> </div> <div style="text-align: center;"> EN 998-1:2010 Light plaster mortar CS II for interior and exterior use 3621-998-01 </div>	
Coefficient of vapor permeability	$\leq 20 \mu$
Water absorption	W2 low
Adhesive strength on concrete	$\geq 0,08 \text{ MPa}$
Durability	NPD
Thermal conductivity Light Mineral Plaster R	$(\lambda_{10, \text{ dry, mat}}) \leq 0,29 \text{ for } P = 50\%$ (table value) $(\lambda_{10, \text{ dry, mat}}) \leq 0,32 \text{ for } P = 90\%$ (table value)
Reaction to fire	A2-s1,d0

NPD – "No Performance Determined"