Data Sheet

Mineral Lightweight Render G 3679

Smooth render that can be treated with a sponge float and that is made of standardized mineral bonding agents and mineral additives

Field of application

For achieving decorative, weather-resistant, mineral surfaces in the Brillux ETIC systems in conjunction with ETICS Powder Adhesive 3550, ETICS Powder Adhesive VZ 3600, ETICS Adhesion and Reinforcement Mortar L 3500 or ETICS Light Mortar XL 3532. Can be used as a smooth render as well as a slightly texturable modeling render. Furthermore, can also be used on even mineral substrates, e.g., exterior plaster (compressive strength category CS II–CS III).

Properties

- For exterior use
- Dry mortar made of standardized mineral bonding agents, mineral additives and organic modifications
- Can be treated with a sponge float
- Freely texturable
- Very good adhesion to mineral substrates
- Easy to apply manually or mechanically
- Long open time
- Extremely water-vapor-permeable
- Certified as a top coat in the Brillux ETIC system

Material description

Standard color	0095 white Other colors available upon request.
Material basis	Hydraulically standardized bonding agents and potassium silicate
Bulk density	approx. 0,8–1,0 g/cm³
Coat thickness	as smooth render approx. 3,0–3,5 mm as modeling render approx. 3,0–5,0 mm
Packaging	25-kg-sacks and 350-kg-Big-Bag

Use

Addition of water	Approx. 10.0 liters per 25-kg-sack. Add the same amount of water to each mixture, i.e. ensure uniform consistency.
Tinting	No tinting.
Compatibility	Do not mix with other materials.
Mixing	Using a high-power agitator (min. 900 W) and a right handed spiral (plaster stirrer) or continuous flow mixer, mix Mineral Lightweight Render G 3679 and water until a clot-free, paste-like mortar is obtained. After allowing the mixture to mature for approx. 2 minutes, stir up the mortar again briefly.
General requirements	When it comes to producing smooth plaster surfaces, it must be ensured that the substrate is as level as possible. The reinforcement layer must be applied with particular care and has to be sufficiently thick. Visible joints and edges must be avoided. We recommend using WDVS Adhesion And Reinforcement Mortar L 3500.
Application	Apply the freshly mixed plaster manually with a stainless steel trowel or with a suitable worm conveyor, comb through it with a notched trowel (10 x 10 mm) and subsequently smooth the surface. Avoid level differences. After setting, treat with a suitable sponge float, e.g., Latex Sponge Float 3480 or Rubber Sponge Float 1098. Ensure a uniform film thickness. Do not feather it out to zero. Apply the render wet in wet to avoid visible lap marks. For this purpose, we recommend using a sufficient number of workers particularly on larger surfaces. The smooth plaster is to be applied with a uniform film thickness, and to further minimize the risk of cracking, an additional top coat is generally required. To design the surface of the render material, texture as desired immediately after application. For freely modeled textures, avoid large level differences to prevent shrinkage cracks.
Consumption	Approx. 2.5 kg/m² with a layer thickness of 3.0 mm. 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 than +5 °C or higher than +30 °C. The temperature limits must be complied with even during the curing time.
Open time (at +20 °C)	Modeling: The mixed material is open for modeling for approx. 25 minutes. For felting: Felting is possible when the plastered surface has a matt appearance, but the plaster still has sufficient residual moisture. The time until felting is possible depends on the weather conditions and may be up to several hours in the case of low temperatures and high atmospheric moisture.
Tool cleaning	Immediately after use with water.

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

Fully dry and ready for coating after approx. 3 days.
In the case of lower temperatures and/or higher atmospheric moisture, allow for longer drying time.

Storage

Cool and dry. Close opened containers tightly. Use material within 12 months.

Declaration

Product-Code not assigned
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, sintered layers and separating agents. Penetration of moisture behind the plaster, e.g. through joints, cracks, etc. must be excluded. Check existing coats for their bearing capacity. Remove defective and unsuitable coats thoroughly and dispose of them as per the applicable regulations. Thoroughly clean areas affected by fungal and algal infestation and treat with Universal-Desinfectant 542. (*Use biocide products with care. 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. m.). Level the uneven substrates using mineral mortar, e.g. plaster of plaster mortar group PII. Also refer to VOB Part C, DIN 18363, Par. 3.

Render coating, exterior

Substrates	Plaster coat[1)]	Top coat [2)]
Reinforcement layer using ETICS Adhesion And Reinforcement Mortar L 3500, ETICS Powder Adhesive 3550, ETICS Powder Adhesive VZ 3600 or ETICS Light Mortar XL 3532	Mineral Lightweight Render G 3679	Extrasil 1911

[1)] When using Mineral Lightweight Render G 3679 on BaseTec 3540/3541, a base coat with Silicate Brush-On Filler ELF 3639 is to be applied. A render base coat is not required for any other cases.
[2)] In the case of colored designs in ETIC system note a brightness reference value ≥ 20.
For colored design of white plasters, two coats of Extrasil 1911 are required.
Extrasil 1911 can, if required, be ordered as “Protect Quality” with film preservation against algal and fungal infestation.

Notes

Mask surfaces Carefully mask surrounding surfaces that are to be coated, especially glass, brick and natural stone.

Contiguous surfaces Only use material from the same batch on contiguous surfaces or mix the required material quantity.

ETICS colored coating Colored top coatings in the ETIC System with a light reflective value of ≥ 20 can be implemented without restrictions. If color shades with a light reflective value of < 20 are to be used, then the color shades should be discussed with the Brillux Consulting Service.

Notes

As "Protect Quality"	Mineral Lightweight Render G cannot be provided with film preservation against algal and fungal infestation. In the event of existing algal and fungal infestation, we recommend applying a two-stage equalizing coat with Extrasil 1911 in “Protect Quality”.
Surface irregularities after drying	Depending on the weather conditions, mineral, hydraulically curing plasters can exhibit a cloudy shaded appearance when dry. These general characteristics represent the present state of the art, are not a technical or functional defect and do not justify a complaint. To achieve a uniformly-colored surface, we recommend applying an additional equalizing coating; this is essential for colored render coatings.
Equalizing coating after drying	The equalizing coating is applied after curing of the render coating, i.e. after approx. 5 days (depending on weather conditions). For colorful design of white plasters, two coats of Extrasil 1911 are required.
Smooth render surfaces	In smooth, mineral render coatings, in accordance with to DIN 55699, hair cracks cannot be fully ruled out and therefore are not a valid reason for a complaint.
Coating protection	When preparing for, drying, and curing, the surfaces are to be protected from direct exposure to sunlight, strong wind, and moisture, e.g., with tarpaulins. Do not use below ground level, on base areas or cellar entries without additional protective measures.
Horizontal surfaces	Do not use render coatings on horizontal surfaces. Projecting structural components, e.g., window sills, cornices, copings, must be properly covered to prevent the occurrence of 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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