



bergmann Solar render

Mineral, ecological, solar active finish render

Product description

- Protection against algae
- Significantly improved protection against algae and dirt when combined with bergmann Solar paint coating
- Long-lasting brilliancy
- Water-repellent
- Highly water vapour permeable
- Ecological, mineral
- Long-lasting protection of building structure
- Flexible facade coating

bergmann Solar render is a top-quality, mineral finish render based on silicone resin with special mineral additives. It is water vapour permeable and water repellent. Ultra-fine hollow glass microspheres (no nano-technology) guarantee a well-balanced temperature and moisture ratio-properties that also help save energy. Available in white or any colour on the bergmann shade card.

Field of application

bergmann Solar render can be used as a premium finish coat for a coloured facade design. Suitable for use as a system together with bergmann Solar basecoat render and on all stable, mineral substrates.

Product properties

Thanks to its excellent structural properties, bergmann Solar facade render is a versatile high-quality, water-repellent and breathable thin-layer render that is easy to apply. The hollow glass micro-spheres embedded in a silicone resin matrix create a smooth, repellent surface. In the event of rain, droplets hitting the surface bind dirt particles and are naturally rinsed off the façade (resistant against pelting rain and dirt repellent). The micro-fine molecule structure contributes to a balanced temperature and moisture ratio, i.e. similar to a breathable rain jacket (water vapour migrates from inside to outside, thus preventing a „trapped perspiration effect“). Heat remains inside in winter and is dissipated in summer. bergmann Solar render thus meets all the basic requirements for a long-lasting proper functioning of the facade.

SCHWENDER GMBH

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2017-11-2

General information

Contact us for technical support if you have questions regarding the application or site specifics. Do not mix with any other foreign substances. Make sure eyes and skin are protected. In the event of eye contact, wash thoroughly with water and consult a doctor immediately. Please refer to the Material Safety Data Sheet for health and safety advice (latest version available at www.bergmann-solar.de). After hardening, the product presents no risk to health or environment.

Legal notices

The information provided in this document is based on our technical knowledge and experience at the present time. It must be regarded as a general guideline only. Owing to the large number of potential influences, it does not relieve anyone using or processing our products from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance of certain properties or that our products are fit for a specific purpose. Responsibility for complying with any property rights, applicable laws or other requirements lies solely with the user. This datasheet invalidates any previous datasheets.

Site requirements

Ensure the substrate surfaces are stable, dry and free from dirt, loose particles or release agents (e. g. formwork oil). Do not apply in site or ambient temperatures below 5 °C or excessive heat above 30 °C. Allow approx. 24 hours to dry under standard conditions (+ 20 °C / 65 % relative humidity). Lower temperatures or higher humidity may increase drying time.

Substrate preparation

Pre-treat highly-absorbent substrates with bergmann Solar basecoat render.

Application

bergmann Solar render is ready to use. Stir thoroughly before application. Trowel back to the grit thickness and give the wall the desired texture. Use plastic trowels, polystyrene or sponge floats for texturing depending on the substrate condition and desired finish. Work adjoining surfaces quickly without creating any seams. If necessary, thin with clean water to achieve the desired application consistency. Do not apply in direct sunlight, rain or when the relative humidity is too high.

Subsequent treatment

Protect freshly applied render from rain and rapid drying caused by direct sunlight and/or wind.

Coating

We cannot guarantee a 100 % colour match between the finish render and paint or bergmann shade card due to the varying pigmentation levels. Colour variations may also occur in the same shades of paint. bergmann Solar render can be coated with solar paint, silicate-emulsion, silicone resin and emulsion paints.

Further processing

To achieve solid weathering protection, two coats of paint are always required with intensive colours or different colours, e. g. white render and coloured paint.

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Storage

Protect from frost or freezing temperatures. Shelf life is at least 12 months when stored in original, unopened buckets.

Quality

The use of tried and tested raw materials that are continuously checked guarantees consistently high-quality products. State-of-the-art manufacturing facilities ensure reliable product properties. We continuously monitor product quality at our in-house building materials labs.

Coverage rates

2.0 mm grain size: approx. 3.0 - 3.2 kg/m²

3.0 mm grain size: approx. 3.8 - 4.1 kg/m²

A test patch is recommended to determine the exact consumption rates.

Availability

In 22 kg buckets on pallets with 25 buckets = 528 kg

Disposal

Make sure to completely empty the buckets and dispose according to official regulations.

Technical specifications

Density	1.8 kg/dm ³
Bond strength	≥ 0.3 MPa
Outdoor application	Yes
Indoor application	No
Max. application thickness	Approx. 5 mm
Min. application thickness	According to the size of the selected texture grain
Reaction to fire	B – s1, d0 (when used on mineral substrates)
Water absorption	W2 medium
Water vapour permeability according to DIN EN ISO 7783-2	V2 medium / 0.14 m
Water absorption coefficient Permeability rate according to EN 1062	W ≤ 0.15 kg/(m ² *h ^{0.5})
VOC content DIN EN 11890-2	< 40 g/l

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