



bergman Solar paint

Exterior paint

Product description

- Superior protection against algae
- Long-lasting brilliancy
- Ecological, mineral
- Heat-regulating thanks to insulating effect
- Long-lasting protection of building structure
- Low in surface tension, flexible facade coating
- Moisture-regulating thanks to microporous structure

Product description

bergmann Solar paint is the cutting-edge combination of modified silicone resin emulsion with a high percentage of ultra-fine hollow glass microspheres. These microspheres (no nano-technology) help provide a superior temperature and moisture-regulating facade protection. The coating comes with a high level of protection against algae and mould growth thanks to a special formula, supported by the microporous surface that enhances the facade's drying behaviour. To achieve the structural effect, two coats of paint are required. However, one coat of paint is not sufficient to fully achieve the structural properties. Available in white or any colour on the bergmann shade card.

Field of application

bergmann Solar paint is a solvent-free facade paint with a mineral base structure. It is suitable for application on all types of render, mineral substrates and heat-insulating systems. Additional application areas include the refurbishment of coated substrates and old insulated facades.

Product properties

bergmann Solar paint currently provides the most efficient environmental protection for facade coatings thanks to its excellent structural properties. The hollow glass microspheres embedded in a silicone resin matrix create a smoother, repellent surface. In the event of rain, droplets hitting the surface bind dirt particles and are naturally rinsed off the facade (resistant against pelting rain and dirt repellent). The microporous structure contributes to a well-balanced temperature and moisture ratio, similar to a breathable rain jacket (water vapour migrates from inside to outside, thus preventing a "trapped perspiration effect"). The surface structure increases heat reflection in summer when the sun is high and reduces the absorption of heat. Conversely, when the sun is low in winter, transmission increases by 20 %. bergmann Solar paint thus meets all the basic requirements for a long-lasting proper functioning of the facade.

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General information

Contact us for technical support if you have questions regarding the application or site specifics. Do not mix with 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 for health and safety advice (current version at www.bergmann-solar.com). 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 paint in site or ambient temperatures below 5 °C or above 30 °C. Allow approx. 12 hours to dry under standard conditions (+ 20 °C / 65 % relative humidity). Lower temperatures or higher humidity may increase drying time.

Substrate preparation

Pre-treat surface with bergmann Solar paint primer depending on the relevant substrate. Cover dirt-sensitive building elements or seal them off with a water-proof cover.

Application

bergmann Solar paint is ready to use. Dilute with max. 5 - 10 % of clean water for first and intermediate coat and with max. 2 - 5 % for finish coats. Stir thoroughly before use. Do not apply in direct sunlight, rain or when the relative humidity is too high. Take all precautions to ensure safe application of the product. Always read and follow product information before use.

Subsequent treatment

Protect freshly painted areas from 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 paint can be coated with 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, for instance white render and coloured paint.

Storage

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

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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

For one coat of paint, approx. 0.2 - 0.4 l/m² depending on the type of substrate and its absorption capacity. Note: Rough surfaces may increase the amount of paint required. A test patch is recommended to determine the exact consumption rates.

Availability

In 5 l buckets on pallets with 64 buckets each = 320 l;

in 15 l buckets on pallets with 24 buckets each = 360 l

Disposal

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

Technical specifications

Solvent-free, water-soluble (max. 2 - 10%), Eco-friendly and low in odour
Hydrophobic, micro-porous and non-film forming
Highly water vapour permeable V1 high (Sd-value 0.05 m according to EN ISO 7783-2, dry film thickness at approx. 200 µm)
Capillary water absorption W3 low, w-value according to DIN EN 1062-3 (after 24 hours 0.05 kg/m ² h ^{0.5} , dry film thickness at approx. 200 µm)
Wet scrub resistance class II according to DIN ISO 11998
Maximum grain size 100 µm
Level of reflection > 80 %
1.9 g/l VOC content according to DIN EN ISO 11890-2 (permissible limit 40.0 g/l)

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