

Secocret 449



Weather-resistant, high-filling, silicone aerated concrete coat, water-repellent, matt, for exterior use



Color System

Field of application

Can be used as a structural coating for weather-resistant, durable surface protection and the design of aerated concrete wall panels for outdoors. Suitable for first and renovation coatings. On surfaces exposed to moisture (depending on location and construction) there is a risk of algal and fungal infestation. We recommend using a coating system in "Protect Quality" for these surfaces (follow the additional instructions at Notes).

Properties

- Weather-resistant
- Water-repellent
- Very good filling power
- Low tension
- Matt
- Non-saponifiable
- Impervious to driving rain
- Water-vapor-permeable
- Resistant to industrial emissions
- In accordance with aerated-concrete industry guidelines
- Optionally available in Protect quality (film protection against an algal and fungal infestation of the coating)

Material description

Color shade	0095 white Light color shades can be mixed with the Brillux Color System. Additional color shade available upon request (note the light reference value ≥ 30).
Gloss grade	Matt
Base material	Silicone resin emulsion combined with styrene acrylate copolymer dispersion
Density	Approx. 1.75–1.85 g/cm ³

Material description

Water-vapor-permeability Diffusion-equivalent air layer thickness: $s_d(\text{H}_2\text{O}) < 0.8 \text{ m}$ in accordance with DIN EN ISO 7783, corresponds to class V2 "high water vapor permeability" in accordance with DIN EN 1062-1

Water absorption coefficient $w\text{-value} < 0.02 \text{ kg/m}^2\cdot\text{h}^{0.5}$) in accordance with DIN EN 1062-3, corresponds to class W_3 "low water permeability".

Packaging 25 kg (can also be delivered in a silo)

Use

Thinning If necessary, thin slightly with water. As a sludge coating, approx. 15% with water.

Tinting Up to a max. of 0.2 % with Mixol LW oxide types.

Compatibility Can only be mixed with materials of the same type and those specified in this data sheet.

Application For the first application, apply Secocret 449 as a sludge coating with the block brush to fill the pores. Secocret 449 may be applied optionally as a top coat with a block brush or paint roller. Depending on the desired surface appearance, the coating is subsequently reworked element-by-element, for example, with a Foamed Texturing Roller or the Surface Block Brush 1210 in one direction. It can alternatively also be applied mechanically with suitable equipment, e.g., a screw conveyor. In this case, Secocret 449 will be sprayed on for the initial application and then applied with the block brush to fill the pores. Also texture the top coat applied by spray application seamlessly in accordance with the desired surface appearance.

Consumption For the first coating of aerated concrete, ensure at least $1,800 \text{ g/m}^2$ is used in total (intermediate and top coats). For renovation coats applied in a single sitting, use approx. 700 g/m^2 . Determine the exact consumption by means of a test application on the object to be coated.

Application temperature Do not apply if air or object temperature is below $+5^\circ\text{C}$.

Tool cleaning Clean tools with water immediately after use.

Drying (+20°C, 65% relative humidity)

Coatable after approx. 12 hours.
Allow longer drying times at lower temperatures and/or higher air humidity.

Storage

Store in a cool and frost-free place. Reseal opened containers tightly.

Declaration

Notes Contains preservatives

Product code BSW20
Comply with the specifications in the current safety data sheet.

Substrate preparation

- The substrate must be solid, dry, clean, load-bearing and free from efflorescence, sinter layers, separating agents, corrosion-promoting components or other intermediate layers affecting the adhesion.
- Check the suitability, load-bearing capacity and adhesive properties of existing coatings
- Thoroughly remove defective and unsuitable coatings and dispose of them in accordance with the applicable regulations
- If the substrate is exposed to moisture, fast water run-off is to be ensured. Protect horizontal surfaces by taking appropriate design measures.
- Clean surfaces infested with fungi and algae thoroughly and then treat them with Universal Disinfectant 542*. (* Use biocide products with care. Always read the label and product information before use.)
- See also VOB Part C, DIN 18363, Section 3

First coating with Secocret 449

Substrates	Prime coat ¹⁾	Filling	Intermediate coat	Top coat
White build-up: untreated aerated concrete wall panels			Secocret 449 Or Facade Brush-on Filler 444 as a sludge coating (Consumption: approx. 800 g/m ²)	Secocret 449 (Consumption: approx. 1,000 g/m ²)
Colored build-up: untreated aerated concrete wall panels (light reference value ≥ 30)	Priming Concentrate 938, 1:4 water-diluted			
White or colored build-up with filling: untreated aerated concrete wall panels (light reference value ≥ 30)		Briplast Teriofill 1883	Only for colored top coat: Secocret 449, matched to the color shade of the top coat (Consumption: approx. 400 g/m ²)	

¹⁾ Repair smaller damaged areas up to a maximum depth of 5 mm with Briplast Teriofill 1883 or a suitable material of the same type recommended by the aerated concrete manufacturing industry, as required, and prime with Lacryl Deep Penetrating Primer 595 or Priming Concentrate 938 after sufficient drying.

Renovation coating with Secocret 449

Substrates	Priming ¹⁾	Intermediate coat	Top coat
Aerated concrete wall panels with intact aerated concrete coating without cracks	Priming Concentrate 938 depending on requirements, 1:4 water-diluted or Adhesion Primer 3720	Secocret 449 as a sludge coating depending on the object and the requirements	Secocret 449
		Evocryl 200 depending on the object and the requirements	Evocryl 200
	Secoprime 917 depending on the individual requirements	Depending on the object situation and requirements, Secolan 913, Secodur 920 or Secolux 918	Secolan 913, Secodur 920 or Secolux 918

¹⁾ Repair smaller damaged areas up to a maximum depth of 5 mm with Briplast Teriofill 1883 or a suitable material of the same type recommended by the aerated concrete manufacturing industry, as required, and prime with Lacryl Deep Penetrating Primer 595 after sufficient drying.

Notes

Joint formation Fill joints with a sealing function which have to absorb larger deformations, e.g., connection joints between aerated concrete and other building materials, components and movement joints with Hybrid Sealing Compound 383.
The joint width-to-sealant depth ratio should be at most 1:1 or the sealant depth should be 80–100% of the joint width. A three-point adhesion must be avoided.
The DIN 18 540 "Seals of exterior wall joints in building construction with joint sealants" Part 1–3 does not apply to joints between aerated concrete components. However, it should be applied analogously for connection joints between aerated concrete assembly components and other components (e.g. frames, steel concrete supports, ceilings, walls). Observe the additional information in the Hybrid Sealing Compound 383 data sheet.

Colored version of aerated concrete Colored coatings on aerated concrete must be applied with a light reference value ≥ 30 if possible. If the light reference value is < 30 , the color shade must have a TSR value of > 35 . For further information, see BFS leaflet no. 11 "Coatings, wallpapering and gluing on aerated concrete".

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

Touch-ups Touch-ups to part of a surface are always visible. The degree to which they stand out depends on the situation on site. According to BFS Leaflet no. 25, Section 4.2.2.1, Paragraph e this is unavoidable.

Coating protection Protect fresh coats both from the effects of moisture, e.g. rain, but also too rapid water removal, e.g. due to strong wind, sunlight. Do not apply on heated substrates. Cover with protective tarpaulins, if necessary.

Notes

- Moisture exposure in interior areas** In case of increased indoor humidity (relative humidity > 70%), additional measures must be taken to reduce water vapor or to prevent it. Kitchens and bathrooms in apartment buildings do not count among these areas.
- Cracks and/or non load-bearing coatings** A standard coating build-up on aerated concrete with cracks and/or a non load-bearing coating cannot be specified at this time. Please contact the Brillux Consulting Service if you have any related questions.
- Glossy streaks in the case of early exposure to moisture** If the coat is exposed to moisture early after application (dew or rain), water-soluble surfactants can be dissolved from the paint film and deposit on the coat surface (glossy stains). If such stains occur, do not immediately re-coat the surfaces. The water-soluble materials will be washed off by moisture (rain) again in the course of time. If the affected surfaces are to be re-coated immediately, the stains must be washed off thoroughly with water. To avoid this, only carry out the coating work when weather conditions are favorable.
- Structural protection** Window sills and adequately dimensioned covers prolong the service life of facade coatings. Missing drip edges or drip edges that are too close to the building/facade (according to BFS Leaflet no. 9, Notes I) can lead to visible stains and soiling on facades, balustrades, etc. within a relatively short time.
- Protect quality** Containers marked with "Protect" contain material that is optimized in the factory with film preservation against algal and fungal infestation. The material may only be used outdoors. The contained preservatives minimize and/or delay the risk of algal and fungal infestation. The material enhanced by adding film preservation must be applied with sufficient layer thickness. We recommend application of at least two layers. A further primer or intermediate coat, which is additionally equipped with Protect, further increases the depot effect and thus extends the effective period of the coating system. With the current state-of-the-art technical development, a permanent protection against algal and fungal infestation cannot be guaranteed.
- Further information** Follow the instructions in 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.

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