

Silicone Facade Paint 918



Highly water-repellent and diffusible, microporous, matt, weather-resistant, for exterior use



Color System

Basecode

Field of application

For weather resistant, water repellent and permeable facade paint on load-bearing mineral substrates, e.g. exterior render, concrete, sand-lime brickwork, silicate and mineral paint coatings, fiber cement, matt emulsion paints, organically bound plasters. In particular, can be used on organically bonded plaster in the ETICS (external thermal insulation compound systems). On surfaces exposed to moisture (depending on location and construction) and on highly heat-insulated facades there is a risk of algal and fungal infestation. For such surfaces we recommend using Silicone Facade Paint 918 in "Protect quality" (for further information, refer to Notes).

Properties

- water-repellent
- Highly weather-resistant
- Highly water-vapor-permeable
- Micro-porous – thus does not form a film
- Low tendency to soil
- High protective function against aggressive air pollutants
- Low odor
- Low tension
- Quick drying
- Non-saponifiable
- Highly economical
- Very easy to apply
- Optionally available in Protect quality (film protection against an algal and fungal infestation of the coating)
- Available in the SolReflex system with a special TSR formula ("Total Solar Reflectance")

Material description

Colors	0095 white A number of additional color shades can be mixed with the Brillux Color System, even with the TSR formula.
Color fastness	Fb code A1, depending on color shade, according to BFS Leaflet no. 26.
Base material	Silicone resin emulsion combined with acrylate copolymer dispersion
Density	Approx. 1.50 g/cm ³
Classified in accordance with DIN EN 1062	S1 Grain size fine E3 Dry film thickness > 100 to ≤ 200 µm, depending on system build-up. G3 Degree of gloss matt (optically silk matt surface) V1 Medium water-vapor permeable, s_d (H ₂ O) approx. 0.03 m according to DIN EN ISO 7783. W3 Low water permeability, w-rate < 0.05 kg/(m ² ·h ^{0.5})
Packaging	0095 white: 10, 15 l Color System: 1 l, 2.5 l, 10 l, 15 l

Use

Thinning	If necessary, thin slightly with water.
Tinting	Up to a max. of 0.2 % with Mixol LW oxide types. Colors mixed with a TSR formula may not be subsequently changed.
Compatibility	Can only be mixed with materials of the same type and those specified in this data sheet.
Application	Silicone Facade Paint 918 can be applied by using a brush, roller or airless spray application. Optimal results are achieved with high efficiency through the use of low-overspray airless spraying. For more information, refer to information leaflet 2ns2. (Observe information about "Protect quality").
Consumption	Approx. 150 to 180 ml/m ² per coat on smooth substrates. Consumption increases on rough surfaces accordingly. 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°C.
Tool cleaning	Clean tools with water immediately after use.

Use

Spray data

Spray system	Nozzle	Spray angle	Pressure	Thinning
Powerful Airless system	0.021–0.027 inch	40°–80°	150 bar	Approx. 5–10%

Spray data for low-overspray facade coatings

Spray system	Nozzle	Spray angle	Pressure		Thinning	
			Banking-up pressure	Spray pressure	with heating hose	without heating hose
Powerful Airless system	0.027 inches	40°	150–200 bar	100–130 bar	Unthinned, possibly up to 5%	up to 5%

Further information and order details for accessories are summarized in the "[Low-overspray airless spraying 2ns2](#)" information leaflet.

Drying (+20°C, 65% relative humidity)

Recoat 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.
Do not inhale spray mist.

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

Coating build-up

- 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.
 - Remove fine-grained layers on concrete surfaces mechanically or by means of pressure washing.
 - If the substrate is exposed to moisture, fast water run-off is to be ensured.
 - Protect horizontal surfaces by taking appropriate design measures. 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.
 - Sand down and clean smooth and dense substrates. 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.).
 - Treat replastered areas with a fluorine primer.
 - Apply a prime and/or intermediate coat to the substrate as required.
 - See also VOB Part C, DIN 18363, Section 3.

Facade coatings with Silicone Facade Paint 918

Substrates ¹⁾	Prime coat	Intermediate coat	Top coat
Weak absorbent exterior surface, intact organic coats, e.g. dispersion paints	Silicone Priming Paint 917	Silicone Facade Paint 918 or – if filling and smoothing properties are required – Silicone Brush Filler 910	Silicone Facade Paint 918
Absorbent substrates outdoors, untreated exterior render (depending on the compressive strength ²⁾), sand-lime brickwork, absorbent intact mineral coatings	Silicone Priming Paint 916		
Untreated organically bound render, silicone render	2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864	Silicone Facade Paint 918	
Intact Glasal® or Fulgural® boards ³⁾			
Untreated, asbestos-free fiber cement panels and cement-bonded particle board ⁴⁾			

- 1) For coating asbestos cement claddings, comply with instructions given in the “Coating Systems for Asbestos Facade Cladding 2asb” data sheet.
- 2) Minimum compressive strength > 1.5 N/mm² (compressive strength category CS II and CS III)
- 3) Glasal® and Fulgural® are registered trademarks of Eternit AG and Fulgurit Baustoffe GmbH.
- 4) Apply generous amounts of the priming coat on all sides including the joints so that the surface is well covered.

Notes

Contiguous areas

Only use material of the same batch or mix the required material quantity for contiguous surfaces.

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.

New mineral substrates

Allow new mineral substrates in particular plaster surfaces (mortar group PII, PIII) at least 14 days or ideally 4 weeks to cure and dry properly before further coating. Depending on the weather and time of year, the drying process may take even longer.

Lime efflorescence on concrete

There is a risk of lime efflorescence on concrete facade surfaces. A pore-free coating film prevents penetration of external water and minimizes this risk. To achieve an intact coating, existing pores, holes and honeycombing must be filled in advance by means of Concrete Pore Filler 782 for example. In event of cracks, use crack-bridging coating systems with a product such as Concrete Finish 839 or Concrete Elast OS 862.

Colored coats in ETICS	Colored coats in the ETIC System with a light reflective value of ≥ 20 can be created without restrictions. If colors with a light reflective value < 20 are to be applied, observe the additional information under the note "SolReflex system with the TSR formula".
Brilliant and intense color shades	Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range have a low hiding power due to the nature of their pigments. When using critical color shades in these color ranges, we recommend applying a full-covering prime coat in the corresponding base color (Basecode). In addition to the standard coating buildup, additional coats may be required.
SolReflex system with the TSR formula	With the SolReflex System, even color shades with a light reflective value < 20 can be applied to newly installed thermal insulation composite systems. In this context, note the information on the information leaflet 5tsr "SolReflex". TSR-formulated products can exhibit slight color shade differences from standard products. Only utilize materials of the same quality and production number on contiguous or adjacent areas, or areas arranged side by side.
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 attack. The material enhanced by adding film preservation must be applied with sufficient layer thickness. We recommend application of at least two layers. With the current state-of-the-art technical development, a permanent protection against algal and fungal infestation cannot be guaranteed. Spray application to vertical surfaces is possible when using low-overspray airless spraying. Do not inhale spray mist and always wear protective clothing.
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 protection colloids 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 each other (according to BFS Leaflet no. 9, Notes I) can lead to visible stains and soiling on facades, balustrades, etc. within a relatively short time.
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.

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