Silicone Facade Paint 918

Silicon-Fassadenfarbe 918

highly water repellent and diffusible, micro-porous, matt, weather resistant, for exterior use

Properties

Highly weather resistant, excellently permeable to water vapor and carbon dioxide, and at the same time a highly water-repellent silicone facade paint. Since the exterior dampness is repelled, the heat insulation within the interior walls is improved because the walls stay dry. White, matt, environmentally compatible, low odor, non-saponifiable and provides high protection against aggressive air contaminants. In addition, because it is adhesive, flexible, fast drying, and micro-porous, it does not form a film and is very easy to apply. It exhibits very good chalking resistance due to its special bonding agent combination.
Silicone Facade Paint 918 can, if required, be ordered as “Protect Quality”, which is provided with a film preservation. Also available in the SolReflex system with a special TSR formula (“**T**otal **S**olar **R**eflectance”) for coatings on newly created external thermal insulation composite systems with a light reflective value < 20. More information on the SolReflex system can be found in Notes section.

Field of application

For weather resistant, water repellent and permeable facade paint on all intact mineral substrates, e.g. normal plaster (mortar group PII, PII depending on the compressive strength), sand-lime brickwork, silicate and mineral paint coatings, fiber cement, emulsion paints, organically bound plasters. In particular, can be used on organically bonded plaster in the ETICS (external thermal insulation compound systems).
On surfaces with persistent high humidity (depending on the location and construction, as well as on ETICS) there is a risk of algae or fungus infestation. For these surfaces we recommend using the ”Protect Quality“ of Silicone Facade Paint 918 (see further details about this under Note).

Material description

Standard color: 0095 white. Many additional colors can be mixed using the Brillux Color System, also with a TSR formula.
Gloss grade: matt
Base material: Silicone resin emulsion combined with acrylate-copolymer-dispersion
Density: Approx. 1.50 g/cm³
Water vapor permeability:
S_d (H_2O) = 0,03 m,
corresponds to class I
"highly water-vapor permeable“
according to DIN EN ISO 7783
Water absorption coefficient:
w-value < 0.05 kg/(m²·h0,5),
corresponds to class III
"low water permeability“
according to DIN EN 1062-3.
Packaging:
0095 white: 10 l, 15 l
Color system: 1 l, 2,5 l, 10 l, 15 l

Use

Thinning

If required 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
Only mixable with similar materials and those specified in this Data Sheet.

Application
Silicone Facade Paint 918 can be applied can be applied by means of paint brush, rollers and spraying method and is suitable for low-overspray facade coating (comply with instructions on "Protect“).
Obtain perfect results at high efficiency by low-overspray airless spraying. For more information, refer to information leaflet 2ns2.

Consumption
Approx. 150–180 ml/m² per layer on smooth substrates. On rough surfaces, consumption will be higher. Determine 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 under +5°C.

Tool cleaning
Clean tools immediately after use with water.

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

Recoatable after about 12 hours. Allow longer drying times at a lower temperature 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 the spray mist.

Water pollution classification
Class 1, according to VwVwS.

Product-Code
M-SF01.

Comply with the specifications in the current Safety Data Shee

Airless-spray data

Nozzle hole		Nozzle angle	Pressure (bar)	Thinning
Inch	mm			
0,021–0,027	0,53–0,69	40°–80°	ca. 150	ca. 5–10%

Airless spray data for low-fog facade coats, e.g. with Wagner SuperFinish 31

Nozzle opening		Jet angle	Pressure (bar)		Thinning	
inch	mm		Banking-up pressure	Spray pressure	with heating hose	without heating hose
0,027	0,69	40°	ca. 150–200	ca. 100–130	undiluted, up to 5 % if necessary	5 %

For more information and order information about accessories, refer to information leaflet "Low-Overspray Airless Spraying 2ns2".

Coating build-up

Surface preparation

The substrate must be solid, dry, clean, load-bearing and free from efflorescence, sinter layers, separating agents, corrosion promoting components or other compounds affecting intermediate layers. Remove fine-grain layers on concrete surfaces mechanically or by means of pressure washing. In the case of exposure to moisture, quick drainage of the water must be ensured. Protect horizontal surfaces by taking appropriate design measures. Check existing coatings for their suitability, load-bearing capacity and adhesive properties. Remove defective and unsuitable coatings thoroughly and dispose of them in accordance with the applicable regulations. Rub down and clean smooth and dense substrates. Clean areas infested with fungus or algae thoroughly and treat them with Universal Disinfectant 542*. (* Use biocides safely. Always read labels and product information before use.) Treat replastered areas with a fluorine primer. Apply a prime and/or intermediate coat to the substrate as required. Also refer to VOB Part C, DIN 18363, Section. 3.

<table>
<tr><th>Substrates [1)]</th><th>Prime coat</th><th>Intermediate coat</th><th>Top coat</th></tr>
<tr><td>Slightly absorbent substrates exterior, intact organic coatings, e.g. dispersion paints</td><td>Silicone Priming Paint 917</td><td rowspan="2">Silicone Facade Paint 918 or if filling and smoothing properties are required Silicone Brush Filler 910</td><td rowspan="5">Silicone Facade Paint 918</td></tr>
<tr><td>absorbent substrates exterior, untreated exterior plaster (mortar group PIc, PII, PIII), sand-lime brickwork, absorbent intact mineral coatings, etc.</td><td>Silicone Substrate Consolidator 916</td></tr>
<tr><td>new, untreated organically bound render / silicone render</td><td></td><td rowspan="3">Silicone Facade Paint 918</td></tr>
<tr><td>intact Glasal®- or Fulgural® boards [2)]</td><td rowspan="2">2C Epoxy Primer 855</td></tr>
<tr><td>untreated, asbestos-free fiber cement panels and cement-bon-ded particle board [3)]</td></tr>
</table>

[1)] For coating asbestos cement claddings, comply with additional instructions given in Data Sheet "Coating Systems for Asbestos Facade Cladding 2asb".

[2)] Glasal® and Fulgural® are registered trademarks of Eternit AG and Fulgurit Baustoffe GmbH.

[3)] Apply the priming coat thickly on all sides including the joints so that the surface is well covered.

Notes

Contiguous surfaces
On contiguous areas only use materials of one production batch number or mix the required quantity of materials.

Repairs
Repairs in the area become more or less strongly apparent depending on the object situation. This is unavoidable (see BFS Leaflet No. 25, 4.2.2.1., para. e).

Lime efflorescences on concrete
There is a risk of lime efflorescence on concrete facade surfaces. A closed coating film prevents water influx from the outside and minimizes this risk. To achieve a pore-free coating, any existing pores, cavities and gravel pockets must be filled, e.g., with Concrete Pore Filler 782. In event of cracks, use crack-bridging coating systems with a product such as Concrete Finish 839 or Concrete Elast OS 862.

New mineral substrates
Allow new mineral substrates, particularly plaster surfaces (mortar group PII, PIII) to cure and dry properly (at least 14 days, better 4 weeks) before coating them. Depending on weather conditions and season, the drying process may take even longer.

Colored coating on ETICS
Colored coatings on ETIC systems with a light reflective value ≥ 20 can be created without restrictions. Should colors with a light reflective value < 20 be applied, observe the additional information under the note "SolReflex with the TSR formula".

Designs with brilliant or intense colors
Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range have a low covering capacity. When using critical color shades in these color ranges we recommend applying a full-covering prime and/or intermediate coat in the corresponding base color (“Base-code”). In addition to the standard coating build-up, further coats may be required.

SolReflex with the TSR formula
With the SolReflex System, even colors 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 Sheet 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.

In the case of asbestos facade boards, please note
For coating asbestos cement facade panels, comply with instructions given in Data Sheet "Coating Systems for Asbestos Facade Cladding 2asb".

As "Protect" quality
The material quality marked with “Protect” is provided with a film preservation against algae and fungal attack and should be used outdoors only for this reason. Spray application is possible on vertical surfaces by using an airless spray method with little fog development. Do not inhale spray fog, wear appropriate safety clothing. The preservatives used minimize risk of algae and fungal attacks.
Facade paints with film preservation must be applied with sufficient layer thickness. We recommend application of at least two layers.
With the current state of the art, a permanent protection against algae and fungal attack cannot be guaranteed.

Protection colloids 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 re-coat the surfaces directly. 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.

Further information
Follow the information on the Data Sheets of the products used.

Remark

This Data Sheet has been prepared taking into account the current applicable German laws, standards, specifications and codes of practice. All details have been translated from the current German version. The contents do not form a legal contract. The user and/or the purchaser is not released from the responsibility of checking that our products are suitable for the proposed use. In addition our Terms of Conditions and Payment apply.

When a new version of this Data Sheet appears with updated information the previous version no longer applies. The current version is available on our website.

Brillux
Postbox 1640
48005 Münster
Germany
Phone +49 251 7188-0
Fax +49 251 7188-105
www.brillux.com
www.brillux.de
info@brillux.de