Silicate Facade Paint HP 1801

Silikat-Fassadenfarbe HP 1801

Silicate facade paint according to DIN 18363, for exterior use, without added biocides, reduces the risk of algal and fungal attacks, weather-resistant, matt

Properties

Weather resistant, single component silicate facade paint as specified in VOB, DIN 18363. White or colored, matt. Owing to its carefully selected, mineral raw materials and hydrophilic characteristics typical of silicates, Silicate Facade Paint HP 1801 creates a good water balance on the surface of the facade. The nutrient-free, highly alkaline colorant, in combination with an almost water-free facade surface provide natural protection against microorganisms. The Silicate Facade Paint HP 1801 bonds to the substrate by silicification and protects highly absorbent plasters against excessive water absorption while being highly permeable to water vapor.

Field of application

For highly diffusible facade coats on all bearing, mineral substrates, e.g. plaster (mortar group PII, PIII, depending on the pressure resistance), Silicate Render HP, sandlime brickwork, silicate and mineral paint coats.

Particularly for painting historical and cultural heritage buildings and as a protection coating for ETIC Systems. In combination with an adhesion-promoting contact coat, e.g. Adhesion Primer ELF 3720 or Silicate Brush-on Filler 3639, can also be applied to on load-bearing, non-elastic, saponification-resistant, matt organic old coats.

Material description

Standard colors:
0095 white,
0096 antique white.
Light colors can be mixed using the Brillux Color System.
Further colors are available on request.
Gloss grade: matt
Base material: Potassium water glass with organic stabilisers
Organic fraction: < 5% as specified in VOB, DIN 18 363 Paragraph 2.4.1.1
Density: Approx. 1.43 g/cm^3
pH: approx. 11
Water vapor permeability (diffusion-equivalent air layer thickness):
S_d (H_2O) < 0.03 m,
corresponds to class I "highly water-vapor permeable“ according to DIN EN ISO 7783
Water vapor diffusion rate:
V ≥ 2000 g/m^{2}d
Water absorption coefficient:
w-value < 0.2 kg/(m^2·h^{0,5}), corresponds to class II „medium water permeability“ according to DIN EN 1062-3.
Packaging:
0095 white: 2.5 l and 15 l
0096 antique white: 15 l
Color system: 2.5 l and 15 l

Use

Thinning
If required, thin slightly with a mixture of Silicate Primer ELF 1803 and water (mixture ratio 1:1).

Tinting
Tintable up to max. 10% using Color Concentrate ELF 9018. Note that colors are brighter when dry.

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

Application
Silicate Facade Paint 1804 can be applied by brush and roller.

Consumption
Approx. 130–160 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 +8°C. Do not apply under direct sunlight, in strong winds or very high air humidity.

Tool cleaning
Clean tools immediately after use with water.

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

Can be recoated and further systems applied after at least 12 hours. Complete silicification only after several days.
Allow longer drying times at a lower temperature and/or higher air humidity.

Storage

Cool and frost free. Reseal opened containers tightly.

Declaration

Water danger class
Class 1, as specified in VwVwS

Product-Code
M-SK01.

The current Safety Data Sheet applies.

Building up the coating

Surface preparation
The surface must be solid, dry, clean, load bearing and free from efflorescence, sintered layers, separating agents, corrosion promoting components or other compounds affecting intermediate layers. Remove fine-grain layers on concrete surfaces mechanically or through 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 carrying and adhesive properties. Completely remove any coatings that are not intact or unsuitable and dispose of these in accordance to the regulations. Remove any fungus and algae on the surface and treat with Universal-Desinfectant 542*. (* Take due care when using biocides. Always read label and product information before use.) Treat replastered areas with a fluorine primer. If the following paint is tinted then prime the whole surface. Prime plastered places. Re-plaster large damaged areas. If necessary prime the surface and / or apply an intermediate coat. Also see VOB Part C, DIN 18363, Paragraph 3.

Surface [1]	Priming coat	Intermediate coat	Top coat
Silicate Render HP [2] [3]			twice Silicate Facade Paint HP 1801
untreated, normal and slightly absorbent surfaces, e.g. new plaster (mortar group Plc, PII and PIII)	Mixture of Silicate Primer ELF 1803, water and Silicate Facade Paint 1804 in the ratio of 1 : 1 : 1	if filling and smoothing properties are required, Silicate Brush Filler 3639	
very absorbent and non-uniformly absorbent surfaces, e.g. sanding of the plaster, sand-lime brickwork, absorbent intact mineral coatings	twice wet on wet with Silicate Primer ELF 1803, thinned 1 : 1 with water		
load-bearing, non-elastic, saponification-resistant, matt organic old coats	depending on the requirements, Adhesion Primer ELF 3720 or Silicate Brush-on Filler 3639		

[1] For coating new untreated, asbestos-free fiber cement panels, we recommend using Evocryl 200 or Silicone Facade Paint 918. For coating asbestos cement claddings, comply with additional instructions given in Data Sheet "Coating Systems for Asbestos Facade Cladding 2asb".
[2] Customised product available on request.
[3] In case of a colored finish, the Silicate Render HP itself has to be tinted in the coordinated color shade.

Notes

Cover surfaces
Carefully cover the area around the painted surface, especially glass, brickwork and natural stone.

Contiguous surfaces
On contiguous areas only use materials of a production or mix the required amount of materials.

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

New mineral substrates
Allow new mineral substrates, particularly plaster surfaces (MG PII, PIII) to cure and dry properly (at least 14 days, better 4 weeks) before coating them. Apply to the Silicate Render HP only after it has adequately cured, i.e. after approx. 5 days, depending on the weather conditions. Depending on weather conditions and season, the drying process may take even longer.

Cracks and damaged spots
Fill any cracks and small holes after priming with a mixture of silicate paint and quartz sand level with the surface.

Surface shading after drying
Because of the chemical bonding process, depending on the weather, the color and surface of the paintwork typically shades, but this is not a technical or functional defect and should not be a reason to complain.

Avoiding copper streaks
Copper ions dissolved in water from, e.g., covers and pipes can react with constituents of the coating to produce brownish/yellowish discolorations. All copper parts should therefore be protected against oxidation or designed such that water running over them is diverted away from the facade.

Protection of the coating
Protect fresh silicate coatings from the effects of humidity, e.g. rain, but also from drying too fast which can be caused by strong wind, direct sun, etc.
Do not apply on heated surfaces, if necessary, use protective sheeting.

Protection against algae and fungi
Due to the selected, nutrient-free, mineral raw materials and the good water balance, the risk of algal or fungal attacks is delayed. Silicate Facade Paint HP 1801 must always be applied with adequate thickness. We recommend at least two coats. In accordance with the state-of-the-art, permanent protection against algal and fungal attacks 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.

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