

Histolith® FassadenSilikat

The mineral façade paint according to DIN 18363



Product Description

Field of Application	<i>Histolith® FassadenSilikat</i> is suitable for highly weather-resistant and colourfast façade coatings with advantageous properties in terms of building physics.
Material Properties	<ul style="list-style-type: none"> ■ Weather and light resistant ■ Structure-preserving ■ Dull matt facade paint ■ Highly permeable to carbon dioxide ■ Highly alkaline, pH value approx. 11.5 ■ Non-combustible
Material Base / Vehicle	Potassium silicate, lightfast mineral pigments, mineral fillers, organic additives (< 5 %)
Packaging/Package Size	Bucket 12,5 l and 5,0 l
Colours	<p>White</p> <p>Factory tinting in many colours on request.</p> <p>Self-tinting with Histolith® Sol-Silikat Volltonfarbe possible.</p> <p>Can be tinted by machine using the ColorExpress system with inorganic colour pastes.</p> <p>Due to the use of natural fillers and granules, slight colour variations are possible. Therefore, only use material from the same batch on contiguous surfaces or mix material from different batches beforehand.</p> <p>Before processing, the material must be checked for colour accuracy and condition. Complaints about deviations from the delivery target can no longer be recognised after processing. Please refer to the VDPM "Leitfaden zu Prüfpflichten bei Anlieferung von Tönware im Rahmen der Untersuchungs- und Rügepflicht (§ 377 HGB)".</p> <p>Colour stability according to BFS data sheet no. 26:</p> <p>Class B</p> <p>Group 1</p>
Gloss Level	Class G3 (matt) according to DIN EN 1062-1
Storage	Cool, frost-free. Application within 12 months.



TECHNICAL INFORMATION NO. 1003

Technical Data

- Maximum particle (grit) size: Class S1 according to DIN EN 1062-1
S < 100 µm according to EN ISO 1524
- Density: ρ: approx. 1.5 g/cm³
- Dry film thickness: Class E3 according to DIN EN 1062-1
E = 100-200 µm
- Diffusion-equivalent air layer thickness s_dH₂O: Class V₁ (high) according to DIN EN 1062-1
s_d < 0.14 m according to EN ISO 7783-2
- Water permeability (w-value): Class W3 (low) according to DIN EN 1062-1
W ≤ 0.1 kg/(m²h^{1/2}) according to EN 1062-3

Note

The fixed values stated represent average values that may vary slightly from delivery to delivery due to the use of natural raw materials.

Suitability according to Technical Information No. 606 Definition of Application Areas

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
+	+	+	+	+
(-) not suitable / (○) conditionally suitable / (+) suitable				

Application

Suitable Substrates

The substrate must be solid, load-bearing, free from soiling, separating substances, dry and absorbent and frost-free. Observe VOB, Part C, DIN 18363, Para. 3.

Substrate Preparation

Old unpainted renders and old mineral coating:

Clean the surface well. Remove any less resistant layers.

New renders according to DIN EN 998-1 Class CS I - CS IV:

Before coating, a standing time of at least 7 days at 20 °C and 65% relative humidity must be observed.

Treat render repairs / sintered skin with *Histolith® Fluat*.

Old, stable, matt emulsion paint coats:

Clean the surface well. Apply a primer coat of *Histolith® Mineralin* diluted with approx. 5 % *Histolith® Sol-Silikat Fixativ*.

Differently absorbent mineral substrates:

Clean the surface well. Remove layers of low strength. Prime with *Histolith® Sol-Silikat Fixativ*, diluted 2:1 to 1:1 in water depending on the absorbency of the substrate.

Brick masonry:

Only masonry made of absorbent bricks is suitable. Hard-fired bricks and clinker bricks are not suitable. Create a test area and check the compatibility of the coating. Clean the surface thoroughly. Repair damaged mortar joints. Prime with *Histolith® Sol-Silikat Fixativ*, diluted 2:1 to 1:1 in water depending on the absorbency of the substrate. For bricks with water-soluble, discolouring ingredients, apply a primer coat with *Caparol Aqua-Sperrgrund*.

Natural stones:

Only absorbent natural stone is suitable as a substrate. Create a test surface and check the compatibility of the coating. Clean the surface thoroughly. Remove layers of low strength. Please note: In the case of natural stone with water-soluble ingredients, these can bloom on the painted surface and cause stains.

Fungal or algae-infested surfaces:

Wet clean surfaces with fungal or algae infestation. After drying, treat the surfaces with *Capatop* and leave to dry.

Preparation of Material

Stir the contents of the container thoroughly with a slow-running agitator. Dilutable up to max. 5 % with *Histolith® Sol-Silikat Fixativ*.

Method of Application

Brushing, rolling or spraying with powerful airless piston devices.

Spray application:

Spray angle: 50 °

Nozzle: 0.026"

Spray pressure: 150-180 bar

Apply coloured coatings with a lightness value < 50 with the brush in short strokes. Finish contiguous surfaces without interruption to avoid lapping. Divide large facades into clauses, apply continuously wet-on-wet and structure.

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Surface Coating System

Weakly and evenly absorbent mineral substrates:

A primer coat with a mixture of 2 RT *Histolith® FassadenSilikat* and 1 RT *Histolith® Sol-Silikat Fixativ*.
Apply a final coat of *Histolith® FassadenSilikat* diluted with max. 5 % *Histolith® Sol-Silikat Fixativ*.

Highly and unevenly absorbent mineral substrates or substrates with a sandy surface:

Apply a primer coat with *Histolith® Sol-Silikat Fixativ*, diluted 2 : 1 to 1 : 1 in water depending on the absorbency of the substrate.

One intermediate and one final coat with *Histolith® FassadenSilikat*, diluted with max. 5 % *Histolith® Sol-Silikat Fixativ*.

On repaired plaster surfaces, it is recommended to apply the intermediate coat with *Histolith® FassadenSilikat* or *Histolith® Mineralin*.

Consumption

■ approx. 250-300 ml/m² for 2 coats on a smooth substrate

These consumption figures are approximate values.

Deviations depending on the object or processing conditions must be taken into account.

Application Conditions

The ambient and substrate temperatures must not be below +8 °C or above +30 °C during the application and curing phase. Do not apply in direct sunlight, strong wind, fog or high humidity. Please refer to the leaflet "Verputzen, Wärmedämmen, Spachteln, Beschichten bei hohen und niedrigen Temperaturen" from the Bundesverband Ausbau und Fassade.

In unfavourable weather conditions, suitable measures must be taken to protect the processed facade surfaces.

Drying/Drying Time

The waiting time for reworking depends on temperature, humidity, air movement, sunlight and application thickness. The information is therefore intended as a guide.

■ Surface dry and recoatable at 20 °C and 65 % relative humidity after approx. 12 h

■ rainproof after approx. 24 h

Tool Cleaning

Rinse with water immediately after use, observing the legal requirements.

Note

Water running off sheet metal coverings made of copper or lead can react with the ingredients of *Histolith® FassadenSilikat* and lead to discolouration, therefore switch to *Histolith® Sol-Silikat* beforehand.

Advice

Please Note (Status as at Date of Publication)

Safety data sheet available on request. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Due to its potassium silicate content, the reaction of silicate based coatings is highly alkaline. Hence protect skin and eyes from paint.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

EU limit value for the VOC content

of this product (category A/c): 40 g/l (2010). This product contains max. 1 g/l VOC.

Product Code Paints and Enamels

BSW40

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