

# Histolith® Kristallin

2-component silicate paint according to VOB/C DIN 18363, paragraph 2.4.1



## Product Description

Field of Application	<p>Histolith® Kristallin is particularly suitable for the renovation of listed (landmarked) buildings/monuments, as the material allows a physically advantageous and durable coating, similar to lime paint coatings.</p>
Product Properties	<p>2-component silicate paint system based on pure silicate without organic stabilisers. Suitable for highly weather-resistant coatings with an excellent colour brilliance.</p> <p>Other outstanding properties of Histolith® Kristallin are:</p> <ul style="list-style-type: none"> <li>■ Lightfast mineral pigmentation</li> <li>■ Maximum water vapour permeability, sd-value: &lt; 0.01 m</li> <li>■ Highly permeable to CO<sub>2</sub></li> <li>■ Silicifies durably with the substrate</li> <li>■ Non-swelling</li> <li>■ Fire behaviour: Non-combustible according to German standard DIN 4102</li> <li>■ Wash- and scrub-resistant</li> <li>■ Solvent-free</li> <li>■ w-value: depending on the substrate</li> </ul>
Product Base / Vehicle	<p>Potassiumsilicate without organic components, used as: Binder for Histolith® Kristallin-Farbkomponente (Colour Component)</p> <p><b>Histolith® Kristallin 2-component silicate paint / system components:</b></p> <p><b>Colour Component:</b> Histolith® Kristallin-Farbkomponente Lightfast, mineral pigments and mineral fillers pasted with water. Does not contain binder, thus has to be mixed with Histolith® Kristallin-Fixaktiv before applying.</p> <p><b>Binder Component:</b> Histolith® Kristallin-Fixativ</p> <p>The Binder Component Histolith® Kristallin-Fixativ can also be applied as:</p> <ul style="list-style-type: none"> <li>■ Thinner for the adjustment to working consistency of the readily-mixed paint (consisting of both components)</li> <li>■ Primer for solidification and equalisation of highly or irregularly absorbent substrates.</li> </ul> <p>In the following the mixture of Histolith® Kristallin-Farbkomponente (Colour Component) and Histolith® Kristallin-Fixaktiv in the given mixing ratio is defined as readily-mixed paint which forms the basis for the Intermediate Coat and the Finishing Coat. Mix 10 litres of Histolith® Kristallin-Farbkomponente (Colour Component; content of 1 container) with 5 litres of Histolith® Kristallin-Fixaktiv and stir intensively, manually or with suitable electric paddle/agitator, until a lump-free and homogeneous basic colour is achieved. Only clean mixing device can be used. Work uninterrupted.</p>



Packaging/Package Size	<ul style="list-style-type: none"> <li>■ <b>Histolith® Kristallin-Farbkomponente (Colour Component):</b> 10 litres</li> <li>■ <b>Histolith® Kristallin-Fixativ:</b> 10 litres</li> </ul>
Colours	<p>White</p> <p>Deliverable ready tinted in many colours ex factory, on request. For finishing coats on continuous surfaces apply only product marked with identical batch number or mix different batches thoroughly.</p> <p><b>Colour Resistance according to BFS Data Sheet No. 26:</b> Class: A Group: 1</p>
Gloss Level	Matt (dull matt)
Storage	<p>Keep in a cool, but frost-free place. The product should only be stored in plastic buckets/containers.</p> <p><b>Shelf Life:</b> Histolith® Kristallin-Farbkomponente (Colour Component): 6 months Histolith® Kristallin-Fixativ: 12 months</p>
Technical Data	<ul style="list-style-type: none"> <li>■ Density: Approx. 1.75 g/cm<sup>3</sup></li> </ul>

## Application

Suitable Substrates	The substrate must be sound/stable, dry, clean, and free from all materials that may prevent good adhesion. In Germany: Follow VOB, part C, DIN 18363, paragraph 3.
Substrate Preparation	<p><b>New Renders/Plasters of Mortar Groups/Classes Plc (Hydraulic Lime Plaster), PII (Lime-Cement Mortars) and PIII (Cement Mortars):</b> Minimum layer thickness of top-layer: 5 mm. Lightweight renders/plasters are unsuitable. Curing times of new renders/plasters have to be observed before coating. Mortar group PI: at least 4 weeks; mortar groups PII and PIII: at least 2 weeks. Remove sintered skin with Histolith® Fluat.</p> <p><b>Uncoated Existing Renders/Plasters and Coats of Purely Mineral-Based Paint:</b> Clean the surface thoroughly and remove all layers of low adherence. Apply one priming coat of Histolith® Kristallin-Fixativ, thinned in ratio of 1:1 to 1:2 with tap water depending on substrate absorbency.</p> <p><b>Render/Plaster Repairs:</b> Repair mortars should match the existing render/plaster in type and texture and must be allowed to set and harden thoroughly before being painted. Treat all repairs with Histolith® Fluat and rinse with tap (potable) water.</p> <p><b>Natural Stones:</b> Only absorbent natural stones are suitable substrates. Always check for compatibility and apply a trial coating. Clean the surface thoroughly and remove all layers of low adherence. Strengthen sanding natural stones with stone sealer Histolith® Steinfestiger.</p> <p>Note: Natural stones with water-soluble substances of content may show efflorescence on the paint coat and visible stains may occur.</p> <p><b>Surfaces with Fungal and Algal Attack:</b> Wash off the fungal (fungi/mildew/mould) or algal attack. Allow the surface to dry, then treat with Histolith® Algenentferner (algae remover) and allow to dry. Prior consultation with our technical assistance is needed to achieve the correct surface coating system.</p> <p><b>Impregnation:</b> High exposure to driving rain and splashing water is detrimental to the durability of coatings. A water-repellent/hydrophobizing impregnation with Histolith® Fassadenschutz or Histolith® Aqua-Fassadenschutz will greatly improve the resistance/durability of coatings. Apply the impregnation at the earliest after a waiting time of 7 days.</p>
Method of Application	Apply the product on listed (landmarked) buildings/monuments preferably by paint brush.

Surface Coating System	<p>Observe a drying time of at least 12 hours between each coat.</p> <p><b>Priming Coat:</b>  <i>Highly or irregularly absorbent substrates:</i>            Apply one priming coat of Histolith® Kristallin-Fixaktiv, thinned in the ratio of 1:1 to 1:2 with tap (potable) water depending on substrate absorbency.</p> <p><i>Substrates with low absorbency:</i>            Brush-application of the readily mixed paint, thinned max. 20 %. For thinning always use Histolith® Kristallin-Fixaktiv and tap (potable) water, in a mixing ratio of 1:1.</p> <p><b>Intermediate Coat</b>            based on the readily mixed paint (consisting of Colour and Binder Component):            Thin up the readily mixed paint to a max. of 10 % with a mixture of Histolith® Kristallin-Fixaktiv and tap water (mixing ratio: 1:1) according to substrate requirements.            On render/plaster surfaces with fine shrinkage cracks: thin up the readily mixed paint with a max. of 20 % Histolith® Schlämmquarz (washing quartz sand), as a crack filling intermediate coat.</p> <p><b>Finishing Coat:</b>            based on the readily mixed paint (consisting of Colour and Binder Component):            Thin up to max. 5 % with a mixture of Histolith® Kristallin-Fixaktiv and tap water (mixing ratio: 1:1).</p>
Consumption	<p><b>Histolith® Kristallin-Fixativ as Primer:</b>            Approx. 70–100 ml/m<sup>2</sup> depending on substrate absorbency.</p> <p><b>Histolith® Kristallin-Farbkomponente (Colour Component):</b>            Approx. 130–150 ml/m<sup>2</sup> per coat on an even surface.            Only applicable in combination with the Binder Component Histolith® Kristallin-Fixativ!</p> <p><b>Histolith® Kristallin-Fixativ as Binder:</b>            Approx. 65–75 ml/m<sup>2</sup> per coat on an even surface.</p> <p>On rough-textured surfaces correspondingly more. The exact rate of consumption is best established by a trial coating on site.</p>
Application Conditions	<p><b>Lower Temperature Limit for Application and Drying:</b>            +8 °C for product, substrate and ambient air.</p>
Drying/Drying Time	<p>At +20 °C and 65 % relative humidity surface-dry and recoatable after 12 hours. Rain resistant after 24 hours. Lower temperatures and higher humidity extend the drying time.</p>
Tool Cleaning	<p>Clean tools immediately after use with water.</p>
Note	<p>Discolouration or stains may occur, according to substrate and weather conditions. A trial application is advisable in order to check for compatibility with the substrate to be coated. To avoid lapping, the product should be applied wet-on-wet and without interruption.</p> <p>Do not apply on horizontal or inclined surfaces exposed to rain or moisture. Do not apply on sun heated substrates, during high temperatures, strong wind, extremely high relative humidity, fog or rain, or imminent rain and frost. Night frost must be avoided. Protect the façade with suitable scaffolding-nets or tarpaulins, if necessary.</p> <p><b>Protective Measures:</b>            The areas adjoining the surface to be painted should be carefully masked, in particular glass, ceramics, enamel/varnish coatings, clinkers, natural stone, metals and wood.</p>

## Advice

Please Note (Status as at Date of Publication)	<p>Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water. Do not empty into drains, water courses or onto the ground.</p>
Disposal	<p>Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures.</p> <p>In Germany: Readily mixed paint: Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints and dried material as hardened paints waste or via domestic waste.            Histolith® Kristallin-Farbkomponente (Colour Component): Mix with Histolith® Kristallin-Fixaktiv and then dispose of like the readily mixed paint.</p>
EU limit value for the VOC content	<p>of this product (category A/a): 30 g/l (2010). This product contains &lt; 1 g/l VOC</p>
Product Code Paints and Enamels	<p>M-SK02</p>
Further Details	<p>See Safety Data Sheet (MSDS)</p>
Technical Assistance	<p>As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.</p>

Customer Service Centre

Tel.: (+49) 0 61 54 / 71 17 10  
Fax: (+49) 0 61 54 / 71 17 11  
e-mail: kundenservicecenter@caparol.de

International Distribution: Please see [www.caparol.com](http://www.caparol.com)

## Technical Information No. 1000 · Issue: August 2011

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No. 1000 · Histolith® Kristallin · Issued: January 2010

DAW International Business: **Deutsche Amphibolin-Werke von Robert Murjahn Stiftung & Co KG** · P.O.B. 1264 · D-64369 Ober-Ramstadt · Tel. +49 6154 71-1274  
Fax +49 6154 71-1264 · E-mail [export@daw.de](mailto:export@daw.de) · Internet [www.caparol.com](http://www.caparol.com)