

## Diescolith Bio-Silicate interior paint

Diescolith Bio-Silikat Innenfarbe

**Silicate interior paint**  
Wet abrasion class 2



**Highly diffusible silicate paint in accordance with DIN 18363 para. 2.4.1.**

- Highly diffusible
- Coverage class 1
- Wet abrasion class 2
- Minimum emissions
- Solvent- and plasticizer-free
- Free from fogging-active substances
- Free from preservatives
- Safe for allergic people

### Application

High-quality cloth-matte silicate paint in accordance with DIN 18363 para. 2.4.1. for mineral coats on wall and ceiling surfaces. The alkaline effect stops the growth or reproduction of moulds and bacteria. Suitable substrates include brickworks, solid, mineral and silicifying plasters and old paints. First apply Diescolith Primer (Diescolith Grundierfarbe) on non-silicifying substrates.

Diescolith Bio-Silicate Interior Paint (Diescolith Bio-Silikat Innenfarbe) is manufactured without preservatives and is therefore, in the white colour, safe for allergic people.

### Technical data

<b>Binding agent base</b>	Potash water glass with organic additives in accordance with DIN 18363 para. 2.4.1.
<b>Pigment base</b>	Titanium dioxide
<b>Rating in accordance with DIN EN 13300</b>	
Gloss level:	Dull matte
Wet abrasion:	Class 2
Contrast behaviour:	Coverage class 1 with a spreading rate of 7 m <sup>2</sup> per litre
Maximum grain size:	Fine (< 100 µm)
Thickness:	Approx. 1.5 g/ml

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<b>Organic content</b>	<5%
<b>Water vapour permeability coefficient (<math>\mu</math>-value)</b>	44 $\mu$
<b>Diffusion-equivalent air layer thickness (sd-value)</b>	0.01 m (with a dry layer thickness of 2 coats with 240 $\mu$ )
<b>Building material class as per DIN 4102-1</b>	A2, non-combustible, test certificate no.: 230006788, Material Testing Institute of North Rhine-Westphalia.
<b>Colour</b>	White
<b>Tinting</b>	Can be tinted in the factory or with commercially available silicate-based full shades and tints. Colour bases are available for tinting using the Diessner MIX system. Please refer to BFS datasheet no. 25. Tinting in intensive colour ranges can result in deviations in the technical data and the offered properties. Note: For tinting with the transparent base 0 of the Diescolith Bio-Silicate Interior Paint (Diescolith Bio-Silikat Innenfarbe), no test certificate of the building material class A 2 as per DIN 4102-1 is available.
<b>Container size</b>	5 and 12.5 litre container
<b>Storage</b>	Store in a cool, frost-free environment. Keep any opened containers tightly closed and use as soon as possible. Unopened containers can be kept for 24 months. See the stamp on the container for the date of manufacture.
<b>Coverage</b>	Depending on the method of application on smooth substrates approx. 150-180 ml/m <sup>2</sup> or on rough substrates approx. 160-220 ml/m <sup>2</sup> per application. Apply a test coat to determine any potential differences relating to your project.
<b>Product code</b>	
<b>Colours and paint</b>	M-SK 01
<b>Hazard identification</b>	Not applicable

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<b>Declaration of ingredients</b>	Potash water glass, plastic dispersion (<5%), titanium dioxide, calcium carbonate, aluminium silicates, water, additives.
<b>Special notes</b>	Keep out of reach of children. During use, protect the skin and eyes from paint droplets. In case of contact with skin, rinse thoroughly with water. In case of contact with the eyes, rinse thoroughly with water immediately and consult a doctor. Do not allow the paint to enter drainage systems, waterways or soil. Carefully cover all surfaces that are not to be coated, especially glass, clinkers, ceramics, natural stone, metal and paintworks. Rinse all types of paint sprayers immediately with water. For more information, see EC safety datasheet.
<b>VOC content</b>	Class a type wb, VOC limit from 2010 = 30 g/l, VOC content < 0.5 g/l
<b>Disposal</b>	Only recycle completely empty containers. Dispose of any liquid material residue at an authorised collection point that handles old paint/varnish. Any dried out material residue can be disposed of as hardened paint or as domestic waste. Waste key no. 080112 according to the AVV waste directory regulation.
<b><u>Handling guidelines</u></b>	
<b>Handling</b>	Apply the material evenly and wet on wet. If necessary, adjust the consistency with approx. 5-10% Silicate Fixative (Silikat Fixativ). Apply an intermediate coat on high-contrast substrates.
<b>Airless application</b>	If necessary, thin down and sift the material before the airless application or ask for an Airfix factory adjustment before ordering the material. Nozzle: 0.021 - 0.023 inch Spray pressure: 150 - 180 bar Spray angle: 40°- 50°
<b>Method of application</b> <b>Cleaning the tools/</b>	Can be applied with brush, roller and airless equipment.
<b>airless equipment</b>	Clean with water immediately after use.
<b>Minimum handling temperature</b>	Do not use if the ambient, subsurface and drying temperature is below +8°C. Do not apply onto heated substrates.

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**Drying time** Surface dry and paintable after approx. 6 hours at a temperature of +23°C and 50% relative humidity. Longer drying time at lower temperatures or higher humidity.

**Cleaning the tools/airless equipment** Clean tools/equipment with water immediately after use.

### Please note

Thin down the material only with Diescolith Universal Fixative (Diescolith Universal Fixativ). In order to avoid any deposits on larger areas, it is essential to apply a rapid coat wet on wet. If using airless equipment, mix the paint thoroughly before use, strain and thin down if necessary or order the AIRFIX-Airless Quality (AIRFIX-Airless-Qualität). When using in rooms that are used for storing foodstuffs, we recommend removing these goods for the renovation and drying period. In case of dark colours, mechanical stress on surfaces can lead to scratches (the so-called brushing effect).

On high-contrast substrate, intensive colours made from the colour base 0 can have a bad coverage. We recommend applying a pastel colour, compensative, additional undercoat with the colour base 1.

### Substrate preparation

Substrates must be silicifying, solid, dry, free of dirt, blooming, discolouration, fungal growth, sintered layers, multi-grain layers and separating substances. Any old coats that are to be treated must be tested for their suitability, adhesion and stability. Please refer to the VOB, Part C DIN 18363 para. 3, the respective BFS datasheets and the technical datasheet 007.

### Note

*This technical information is compiled to the best of our knowledge and corresponds to our state-of-the-art application technology. However, you can only obtain non-binding advice, as the working method in each individual case is dependent on the condition of the structure to be coated and can only be decided on the basis of the actual surface in question. Conditional exceptions are to be taken into account on site. Liability cannot be derived from the aforementioned information.*

*Due to the different substructure materials and the working conditions that are out of our control, we recommend conducting sufficient tests in each case to ensure the suitability of our products for the intended procedures and purposes.*

*All previous versions cease to apply with the publication of this technical datasheet.*