

Technical data sheet

Product description

Intended use: High-quality, environmentally friendly interior wall and ceiling paint based on silicate dispersion designed for the entire living area. Suitable for living and work areas as well as for public buildings.

Properties:

- excellent adhesion to mineral substrates through reaction of the binder with the substrate
- outstanding opacity, high degree of whiteness
- free from solvents and plasticizers, low emission
- free from substances causing magic dust
- allergy neutral, free from preservatives
- naturally fungicidal, as mineral alkaline
- breathable and highly water vapour permeable
(s_d -value < 0,01 m according to ISO 7783; class V₁ "high" as per EN 1062-1)
- fulfils the VOB requirements (German Construction Contract Procedures) part C, DIN 18363 para. 2.4.1 concerning silicate emulsion paints (max. organic proportion < 5%)
- non-flammable (class A2-s1,d0 according to EN 13501-1 as per classification report)

Classification according to DIN EN 13300:

- wet scrub resistance class 1, on substrates which can be silicified
- opacity level class 2, at a spreading rate of 7 m²/l
- gloss level: very matt
- max. grain size: fine (< 100 µm)

Tinting may cause slight deviations of these classification data.

Content as per VdL Directive 01:
(Association of German paint industry)

Potassium silicate, acrylate dispersion, titanium dioxide, calcium carbonate, water, additives

Colour: white, Tintable by means of Mipa Pro Mix Decorative

Specifications:

Specific weight:	approx. 1,60 g/cm ³	ISO 2811-1
pH value:	approx. 11	DIN 53785

Storage: For at least 2 years in unopened original container. Store in frost-free and dry places at a temperature between +5 °C and max. +30 °C.

VOC-regulations: EU limiting value for the product (cat. A/a): 30 g/l (2010)
This product contains max. 0 g/l of VOC.

Application

Processing conditions: Avoid substrate and ambient temperatures below +5 °C and above +35 °C. Do not apply if exposed to direct sunlight or high wind.

This technical data sheet is supplied for informational purposes only! According to our information, all data and recommendations correspond to the state of art and are based on years of experience in manufacturing our products. They do not exempt the user from his obligation to verify professionally, on his own responsibility, the suitability of our products to the intended purpose under prevailing conditions. Safety data sheets and warnings on packaging must be observed. We reserve the right to modify and to complete the information content at any time, without prior notice or obligation to update.

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Suitable substrates: limestone, fibre cement boards (observe BFS-Merkblatt Nr. 14), concrete, lime-cement and cement plasters (PI, PII and PIII), clay plaster, natural stones as well as old mineral substrates. Do not apply on pure gypsum plasters (PIV), aerated concrete, old dispersion and synthetic resin roughcasts, wood, lacquer and oil paints or substrates presenting deposits of efflorescent salts.

Substrate preparation: The substrate must be clean, solid and dry. Observe VOB part C, DIN 18363 para. 3. Remove old, damaged paintworks and possibly residues of mould release agents. Repaired plaster areas and touch ups must be well set and desiccated. Mineral substrates presenting dense, hard almost shiny surfaces must be treated with a fluat and then washed with water. In case of very absorbent substrates, apply Mipa Silikatverdünner thinned with water in mixing ratio 1:1. Substrates containing gypsum or gypsum plasterboards should be pre-treated with Mipa Silikat-Gipsgrundiermittel. Thoroughly cover adjacent surfaces that must not be treated. Protect especially glass, ceramic, marble, clinker and other mineral materials. Remove paint splashes immediately with plenty of water.

Mode of application : brushing, rolling or Airless spraying

Spraying Airless

Spraying angle: 50°
nozzle: 517 / 0,43 mm - 525 / 0,63 mm
pressure: 80 bar

The spray data serve as a reference value and may vary due to different types of equipment.

Dilution: In case of irregularly or highly absorbent as well as friable plaster surfaces, frost-resistant sand-lime brick or in case of renovating old silicate or mineral paint coatings:

Priming coat: Mipa Silikatverdünner 1:1 diluted with water
Intermediate coat: Mipa Innensilikat-Farbe diluted with 10-15% of a 1:1 mixture of Mipa Silikatverdünner and water.
Finishing coat: Mipa Innensilikat-Farbe diluted with 10-15% of a 1:1 mixture of Mipa Silikatverdünner and water.

In case of uniformly and low absorbing new plaster surfaces:

Priming coat: Mipa Silikatverdünner, water and Mipa Innensilikat Farbe in equal parts (1:1:1)
Finishing coat: Mipa Innensilikat-Farbe diluted with 10% of a 1:1 mixture of Mipa Silikatverdünner and water.

Application: Stir well before use. Apply and spread Mipa Innensilikat-Farbe evenly in order to avoid second partial applications and thus staining.

Over the course of time, silicate paints can become thicker. This is a typical characteristic of the product and cannot be considered as a quality defect. The viscosity can be readjusted by simply adding a 1:1 mixture of Mipa Silikatverdünner and water.

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Drying time:	Dry on the surface and recoatable after approx. 6 hours at 20 °C and 65% relative air humidity. Completely dry and stress resistant after 2-3 days. Lower temperatures and higher air humidity extend the drying time.
Spreading rate:	7 m ² /l depending on the absorptivity of the substrate

Special notes

Do not mix with other materials than those specified in order to preserve the product-specific properties.

Because of chemical setting processes (silicification), insufficient drying times between coats can result in staining and streaking. In case of different object conditions such as irregular absorption of the surface, varying substrate moisture in the surface or in places strongly varying alkalinity/ingredients of the substrate, no guarantee can be given for a uniform and streak-free colour.

Apply wet on wet and coat connected surfaces in one operation in order to avoid marks and streaks. Signs of repairs or rework in an area depend on many factors and are unavoidable according to BFS Merkblatt Nr.26 even when using the original paint material. We recommend using Mipa Ultra or Mipa Ultima on smooth surfaces that are exposed to strong glancing light.

When coating sealants, such as acrylic sealant compounds, cracks may occur in the coating due to higher elasticity of these substrates. Furthermore, it may cause discoloration in the coating. Due to large number of different sealing systems on the market, we recommend carrying out your own tests to assess the adhesion and coating results in each single case.

Safety advice

Mipa Innensilikat-Farbe is slightly alkaline. Protect eyes and sensitive skin against colour splashes. Immediately wash away colour traces with sufficient clear water. Consider general hygienic rules. Protect surfaces not to be painted against paint splashes by covering them.

Cleaning of tools

Clean tools with water immediately after use and before longer interruptions of work.

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