Mipa Innensilikat-Farbe

Deckkraftklasse 1

Technical data sheet

Product description

Intended use:
Top quality interior, environmentally friendly, wall and ceiling paint based on silicate dispersion. Suitable for living and work areas, as well as public buildings.

Properties:
- excellent adhesion to mineral surfaces through binder reaction with the substrate
- excellent opacity, high degree of whiteness
- free from solvents, plasticizers and preservatives
- hypoallergenic, low emission, low in odour
- fungicide because of alkaline mineral composition
- white degree CIE: 85 luminance factor: 93
- excellent water vapour permeability
- incombustible (class A2 s1,d0 according to EN 13501-1 as per classification report)
- free from substances causing magic dust

Classification according to DIN EN 13300::
- wet scrub resistance class 1, on substrates which can be silicified
- opacity level class 1, with a spreading rate of 7 m²/ litre
- gloss level: dull matt
- max. grain size: fine (<100 µm)

Content as per VdL Directive 01:
(Association of German paint industry)
potassium silicate, acrylate dispersion, titanium dioxide, calcium carbonate, water, additives

Colour:
white

Specifications:

specific weight:	ca. 1,60 g/cm³	**DIN 51757**
viscosity:	ca. 80 dPas	**DIN 53019**
pH-value:	ca. 11,5	**DIN 53785**

Storage :
At least 2 years, if the tightly closed original container is kept dry, protected from frost. Storage temperature between +5°C and maximum +30°C.

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

Application

Processing conditions :
The object and ambient temperature should be between + 5°C and + 35°C. Do not apply if exposed to direct sunlight or high wind.

Suitable substrates:
limestone, fibre cement boards (please see BFS - Merkblatt Nr. 14), concrete, lime-cement and cement plasters of mortar group I, II and III, efflorescence-free stones as well as old mineral substrates. Do not apply on aerated concrete, old dispersion and synthetic resin roughcasts, wood, lacquers and oil paints, or substrates presenting deposits of efflorescent salts.

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Substrate preparation: The substrate must be clean, dry and sound. Remove old, damaged paintwork. Repaired plaster areas must be treated professionally with a fluate. Repaired areas must be well set and desiccated. In case of very absorbent substrates apply a coat of Mipa Silikatverdünner that has been diluted with water (mixing ratio: 1: 1). Substrates containing gypsum or gypsum plaster boards should be pre-treated with Mipa Silikat Gipsgrundiermittel. Mask accurately adjacent areas and protect especially glass, ceramic, marble, clinker or any other mineral substrates from paint splashes or wipe off immediately with water.

Application mode: shing, rolling or Airless spraying:

Airless spraying:

spraying angle:	50°
nozzle:	517 / 0.43 mm - 525 / 0.63 mm
pressure:	80 bar

These data are reference values and vary as a function of different types of devices.

Dilution: In case of non-uniformly or very absorbent, old, friable plaster surfaces, frost-resistant limestone as well as renovation of old siliceous or mineral coatings:

priming coat:	apply Mipa Silikatverdünner diluted 1:1 with water
intermediate coat:	Mipa Innensilikat-Farbe Deckkraftklasse 1diluted with 10 - 15% of a mixture of Mipa Silikatverdünner and water (mixing ratio 1:1)
finishing coat:	Mipa Innensilikat-Farbe Deckkraftklasse 1 diluted with 10% of a mixture of Mipa Silikat verdünner and water (mixing ratio 1:1)

In case of evenly or slightly absorbent new roughcasts:

priming coat:	mix Mipa Silikatverdünner, water and Mipa Innensilikat-Farbe Deckkraftklasse 1 in equal parts (mixing ratio: 1:1:1)
finishing coat:	thin Mipa Innensilikat-Farbe Deckkraftklasse 1 with 10% of a 1:1 mixture of Mipa Silikatverdünner and water.

Processing : Stir well the material before use. Apply and spread Mipa Innensilikat-Farbe Deckkraftklasse 1 uniformly to avoid second partial application and thus patches.

Drying times: At 20° C and 65% relative air humidity:
dry at surface and recoatable: after approx. 6 hours
completely cured and resistant: after 2-3 days. Lower temperatures and higher air humidity extend the drying time

Spreading rate: 7 m² / litre depending on the absorptivity of the substrate

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Special recommendation

Due to the system, the viscosity of the product may increase in the course of time. This is not a quality defect and by adding Mipa Silikatverdünnung and water (mixing ratio 1:1) the viscosity can be adjusted.
Because of chemical setting processes (silicification), too short drying times between the coats can cause stains or streaks. A guarantee for a uniform application and colour accuracy cannot be given in case of heterogeneous conditions, such as varying absorptivity levels of the substrate, different moisture levels in the surface or strongly varying alkalinity/ ingredients of the substrate
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.
Adverse light conditions (glancing light):
Recommendation: Apply Mipa Ultra or Ultima on smooth surfaces that are exposed to adverse light conditions (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. Repair works on surfaces are more or less visible which depends on the conditions of the object. This is unavoidable according to BFS-Merkblatt Nr. 25, Punkt 4.2.2.1, Abschnitt e).

Safety instructions

Mipa Innensilikat-Farbe Deckkraftklasse 1 is slightly alkaline. Protect eyes and sensitive skin from splashes. Wash away colour traces immediately with sufficient clear water. Consider general hygienic rules. The surfaces which must not be treated have to be protected from colour splashes.

Cleaning of tools

Tools should be cleaned with water immediately after use or in case of prolonged interruption of work.