

Technical data sheet

Description

Intended use: High-quality mineral very matt interior wall paint based on a binder combination of colloidal silica and sodium silicate (fulfils the requirements according to DIN 18363, paragraph 2.4.1., silicate emulsion paints). Suitable for all new or renovation coatings on walls and ceilings. Enables excellent adhesion of silicate coatings on organic substrates (e.g. new and old dispersion-based coatings).

Properties:

- excellent opacity, high degree of whiteness
- easy and safe to apply to almost all common substrates
- free from solvents and plasticizers, free from substances causing magic dust
- hypoallergenic, low emission, free from preservatives
- naturally fungicide because of alkaline mineral composition
- excellent water vapour permeability

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/l
- gloss level: very matt
- max. grain size: fine (< 100 µm)

Content as per VdL Guideline 01: (Association of German paint industry)
colloidal silica, potassium silicate, acrylate dispersion, titanium dioxide, calcium carbonate, silica-based filling materials, water, additives

Colour: White

Specification:

| | | |
|---|--------------------------------|-------------------|
| specific weight: | approx. 1,60 g/cm ³ | DIN 51757 |
| pH-value: | approx. 11 | DIN 53785 |
| organic percentage: | < 5 % | |
| diffusion equivalent air layer thickness: sd ≤ 0,01 m | | ISO 7783-2 |
| (water-vapour transmission rate: V > 2000 g/m ² d) | | |

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

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

Application

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

Suitable substrates: Lime stone, fibre cement boards (please see BFS-Merkblatt Nr. 14), concrete, lime cement plaster, cement plaster of mortar group I, II, III and IV, efflorescence-free stones, old mineral substrates as well as matt emulsion paints and high-quality ingrain wallpaper. Can be also applied to well-dusted, filled gypsum boards. Do not apply to glossy emulsion paints, wood, lacquers and oil paints or substrates presenting deposits of efflorescent salts.

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Substrate preparation: The substrate must be clean, solid and dry. Remove old damaged paintwork. Repaired plaster areas must be treated with a fluete. 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).

There is not pre-treatment necessary for thoroughly dusted surfaces of gypsum filling compounds. Optimum surface homogeneity of subsequent coats, especially in unfavourable light conditions, can be achieved by a pre-treatment with Mipa Gipsgrundiermittel.

Mask accurately adjacent areas and protect especially glass, ceramic, marble, clinker or any other mineral materials from paint splashes or wipe off immediately with plenty of water.

Application method: brushing, rolling or Airless spraying

Airless Spraying

spraying angle: 50°
nozzle: 517 / 0,43 mm - 525 / 0,63 mm
pressure: 120 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: MipaSol Interior diluted with 5 % of water

finishing coat: MipaSol Interior diluted with 0 - 5 % of water

In case of evenly or slightly absorbent new plasters:

priming coat: MipaSol Interior diluted with 5 % of water

finishing coat: MipaSol Interior diluted with 0 - 5 % of water.

Processing: Stir the material well before processing. Apply and spread MipaSol Interior uniformly to avoid partial second coats and thus staining.

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

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

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Notes

Due to the system, the viscosity of the product may increase in the course of time. This is not a quality defect. The viscosity can be adjusted easily by adding water.

Because of chemical setting processes (silicification), too short drying times between coats can cause stains or streaks. A guarantee for an even application and colour accuracy cannot be given in case of heterogeneous object 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.

Recommendation for adverse light conditions (glancing light):

Apply Mipa Ultra or Ultima to 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 a very large number of different sealant 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 unavoidable according to BFS-Merkblatt Nr. 25, Punkt 4.2.2.1, Abschnitt e).

Safety instructions

MipaSol Interior is slightly alkaline. Protect eyes and sensitive skin against paint splashes. Wash off paint splashes immediately with plenty of clear water. Consider general hygienic rules. The surfaces, which must not be treated, have to be protected from paint splashes by masking.

Cleaning of tools

Tools should be cleaned with water immediately after use or before a prolonged interruption of work.

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