Mipa Fassaden-Silikatfarbe

Technical data sheet

Description

Intended use:

Weather-resistant, highly opaque and water vapour permeable facade paint based on silicate as per **VOB Teil C, DIN 18 363 Pkt. 2.4.1. (**German Construction Contract Procedures)

Properties :

- excellent adhesion to mineral surfaces through binder reaction with the substrate
- excellent opacity, high degree of whiteness, non-chalking
- free from plasticizers, low in odour
- Euro-Class
- excellent water vapour permeability with low water absorption; tested by **Fraunhofer Institut for Building Physics**
  Test report no. FP-204/1992
  sd = 0,04 m (water vapour permeability)
  w = 0,13 kg/m² · $h^{0,5}$ (water absorption coefficient)

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

potassium silicate, acrylate dispersion, titanium dioxide, calcium carbonate, silica based filling material, water, additives

Colour:

white

Specifications:

gloss level:	matt	**DIN 67 530**
specific weight:	approx. 1,5 g/cm³	**DIN 51 757**
viscosity :	approx. 30 dPas	**DIN 53 019**
pH-value :	11- 12	**DIN 53 785**

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 regulation:

EU limiting value for the product (cat. A/c): 40 g/l.
This product contains max. 14 g/l of VOC.

Application

Processing conditions:-

The object and ambient temperature should be between + 5°C and + 30°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 P Ic, P II and P 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.

Substrate preparation:

The substrate must be clean, dry and sound. Remove old damaged paintworks. 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). 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.

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Application mode:

Brushing, rolling or Airless spraying:

Airless spraying:
spraying angle: 50°
nozzle: 0,53 - 0,63 mm
pressure: 150 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 Fassaden-Silikatfarbe diluted with 10% of a 1:1 mixture of Mipa Silikatverdünner and water.
finishing coat:	Mipa Fassaden-Silikatfarbe diluted with 5% of a 1:1 mixture of Mipa Silikatverdünner and water.

In case of evenly or slightly absorbent new roughcasts:

priming coat:	mix Mipa Silikatverdünner, water and Mipa Fassaden-Silikatfarbe in equal parts (mixing ratio: 1:1:1)
finishing coat:	Mipa Fassaden-Silikatfarbe diluted with 5% of a 1:1 mixture of Mipa Silikatverdünner and water.

Processing:

Stir well the material before use. Apply and spread Mipa Fassaden-Silikatfarbe uniformly to avoid second partial application and thus patches.

Further treatment:

When the surface is exposed permanently to splash water it is advisable to increase significantly the durability by hydrophobising with Mipa WBS MicroSil.

Drying time:

At 20° C and 65% relative air humidity:
dry at the surface and recoatable: after 12 hours
completely cured and resistant: after 2 - 3 days.
Lower temperatures and higher air humidity extend the drying time.

Spreading rate:

6 m²/l per layer, depending on the absorptivity of the substrate. A test coat on the object will give you an exact figure

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.
Furthermore in case of intense dark colours the finish might show after drying a non-uniform aspect. This is due to the system.
Because of chemical setting processes (silicification), too short drying times between the coats can cause stains or streaks. The conditions of object and weather impact the colour accuracy and the uniformity of the chosen colour. Therefore avoid definitely the following conditions: varying absorptivity levels of the substrate, different moisture levels of the surface, strongly varying alkalinity/ ingredients of the substrate as well as direct sunlight which casts sharp edged shadows on the still moist surface. Generally provide appropriate measures in case of unfavourable weather conditions (e. g. sunblind, rain protection) to protect the surface to be treated or recently treated.

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Special recommendation

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.
In the case of coatings which have not yet dried, an exposure to water (e. g. dew, mist or rain) may dissolve additives out of the coating and deposit them on the surface. The effect is dependent on the intensity of the selected colour and is visible to a varying extent. This effect has no impact on the quality of the product and disappears after further weathering.

Safety instructions

is slightly alkaline. Protect eyes and sensitive skin from splashes. Wash away colour traces immediately with sufficient clear water. Consider general hygienic rules.

Cleaning of tools

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