

MARCOSIL PITTURA LISCIA

SMOOTH SILICATE PAINT FOR EXTERIORS

series 936

DESCRIPTION

MARCOSIL PITTURA LISCIA is a protective modified potassium silicate-base mineral coating, suitable for the protection and decoration of exterior walls.

The inorganic binder used in the formulation of the silicate-based mortar reacts chemically with the mineral surfaces via a process called "silicization", ensuring perfect adhesion to the surface.

MARCOSIL PITTURA LISCIA has a high degree of permeability to water vapour, whilst maintaining unchanged the breathability of the surface; special hydrophobic substances in the product render the coating impermeable to water.

MARCOSIL PITTURA LISCIA is particularly suited to the protection of old mortar and for the restoration of historic town centres, in that it permits a pleasant aesthetic effect full of soft shadows.

MARCOSIL PITTURA LISCIA conforms to the dispositions of DIN 18363.

INSTRUCTIONS FOR USE

May be applied to:

- Lime and cement and lime-based surfaces.
- Compound mortar or equivalent mortars.
- May not be applied to plaster or Gypsumboard.
- May not be applied over old coats of organic-based paint (washable or quartz-based water-base paint).
- Use over concrete surfaces is not recommended as the product cannot protect against the attacks of carbon dioxide, the principal cause of deterioration in concrete, because of its high degree of permeability.

TECHNICAL SPECIFICATIONS

- Type of Binder: organic stabilized potassium silicate in aqueous solution.
- The product conforms to DIN 18363 since its organic binder: <5%.

- Classification per UNI EN 1062-1: (paints for exterior)
- .Gloss per EN ISO 2813: class G₃ (<10 matt)
- .Dry film thickness per ISO 3233: class E₂ (50-100 µm)
- .Grain size per EN ISO 1524: class S₁ (<100 µm fine)
- .Water vapour transmission rate per UNI EN ISO 7783-2: class V₁ (Sd<0,14 m high) Sd<0,1 m
- .Liquid water permeability per UNI EN 1062-3: class W₂ (0,1-0,5 medium)
- .Crack-bridging per UNI EN 1062-7A: class A₀ (no requirement)
- .CO₂ permeability per UNI EN 1062-6: class C₀ (no requirement)

Other characteristics

- Specific gravity per UNI EN ISO 2811-1: 1,50±0,02 kg/l
- Viscosity per UNI 8902: 44000 ± 3200 cps at 25 °C (Brookfield viscometer)
- Drying time (at 25 °C and 65% R.H.): to touch in 1 hour; complete after 16 hours.

PREPARING THE SURFACE

Mortar surfaces:

- Ensure the surface was laid at least 28 days before.
- Check its condition. The surface must be firm. If it is not, replace or consolidate with specific products.
- Remove any efflorescence by brushing or washing.
- Old, synthetic paints must be completely removed.
- Smooth off any irregularities in the surface using BETOMARC 9450150 or RASAMIX 9440160 or other, cement-based products.
- Remove any dust, bloom and other deposits with a brush.
- Ensure the surface is completely dry and apply: one coat of MARCOSIL PRIMER neutralising, silicate-based sealant code 0750030 diluted with about 100% water. The dilution must be adjusted on the basis of the surface's absorption; in the case of extremely powdery surfaces, reduce the dilution and, if necessary, apply two coats of sealant.
- Apply the MARCOSIL PITTURA LISCIA in accordance with the instructions described.

* (The dilution of the sealant and the quantities to be applied are calculated on the basis of the absorption of the surface and must be determined through preliminary tests on the surface itself).

APPLICATION INSTRUCTIONS

Conditions of the surface and surroundings:

Air temperature: Min. +5 °C / Max. +35 °C.

Relative humidity of the air: <80%.

Temperature of the surface to be treated: Min. +5 °C / Max. +35 °C.

Humidity of the surface to be treated: <10%.

- Avoid applying where there is surface condensation or directly under the sun.
- After application, exterior surfaces must be protected from rain and damp until completely dry, which normally (at 20 °C) takes 48 hours.
- Like all inorganic products, the MARCOSIL PITTURA LISCIA is extremely sensitive to environmental conditions and those of the surface, so it is recommended that these instructions be carefully followed.
- Dilution: 1st and 2nd coats: 45/50% with h20.
- Mix the product before using.
- Number of coats: 2.
- Lay the product over the surface in a uniform manner using a brush.
- All tools should be cleaned using water immediately after use.
- During the application, protect (screen off) surfaces in glass, ceramic, plastic, metal and natural stone.
- Indicative coverage: 8-10 sq.m. on surfaces of average porosity. It is recommended that a test be effected on the surface to determine the consumption of the product.

TINTING

The product is supplied white and may be coloured using the MARCROMIE colouring system.

Where different batches of coloured product are used, or to finish a job with the coloured product, it is advisable to mix

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the various batches to avoid slight variations in tone.

For outdoor tasks it is a good rule of thumb to always use material from the same batch, from corner to corner. For tasks where it is unavoidable to continue on a wall with a different batch, do not place the batches contiguously. For the transition point, use any interruptions in the continuity of the surface: moldings, corners, cables, etc.

STORAGE

Maximum temperature for storage: +30 °C.

Minimum temperature for storage: +5 °C.

The product should be preferably used within 1 year from date of manufacture when stored in original unopened containers and in appropriate temperature conditions.

SAFETY RULES

Limit value EU (Dir. 2004/42/EC)

Cat. A: Matt coatings for interior walls and ceilings (gloss <math><25@60^\circ</math>) (water-base): 75 g/l (2007) / 30 g/l (2010)

Cat. C: Coatings for exterior walls of mineral substrate (water-base): 75 g/l (2007) / 40 g/l (2010)

MARCOSIL PITTURA LISCIA Contains max: 30 g/l VOC

irritating to eyes and skin. / keep out of the reach of children. / avoid contact with eyes. / in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. / wear suitable gloves. / if swallowed, seek medical advice immediately and show this container or label.

The product must be moved, used and stored in accordance with current legislation concerning health and safety.

For further information, consult the safety form.

SPECIFICATION ITEM

Applications, on prepared surfaces, of MARCOSIL PITTURA LISCIA formulated from stabilized potassium silicate, organic binder in accordance with the dispositions of DIN 18363, in at least two coats in quantities to be determined by the absorption of the surface.

Supply and application of the material € ... per sq.m.

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