

SILANCOLOR PITTURA

Siloxane paint for internal and external application
WATER-REPELLENT AND TRANSPIRANT
RESISTANT TO AGGRESSIVE ENVIRONMENTS



WHERE TO USE

Painting surfaces when a prestigious aesthetic effect, very high water repellence and excellent vapour-permeability is required for the substrate.

Some application examples

- Decoration of all cement or lime based renders.
- Decoration of **Mape-Antique** based renders.
- Decoration of de-humidifying renders.
- Re-painting over old paint.

TECHNICAL CHARACTERISTICS

Silancolor Paint is a silicone resin based paint that has the advantage of traditional mineral based paints (**Silexcolor Paint**) as well as synthetic paints. Thanks to **Silancolor Paint**'s special formula, it leaves the substrate permeable to water vapour and considerably water repellent. Unlike normal synthetic paints, **Silancolor Paint** does not create a film that is a barrier to water vapour because it creates a porous film and at the same time the use of special silicone resins does not let liquid water penetrate, ensuring an always dry render.

Silancolor Paint adheres perfectly onto all types of traditional renders, dehumidifiers and well bonded old paints. Its water repellent nature protects the substrate from chemical aggression, does not dirty easily and is durable with high resistance to cleaning.

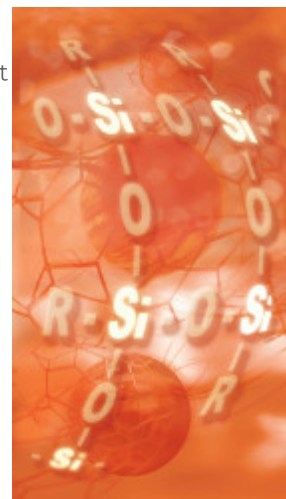
Silancolor Paint is highly resistant to alkalis, cleaning, U.V. rays and general weathering without altering its properties.

Silancolor Paint does not only protect the surface, but has a very pleasing smooth, opaque and velvet effect to the touch.

Silancolor Paint is available in a vast range of colours which are obtained with the **ColorMap®** colour system.

Silancolor Paint is also suitable for applications in interiors on gypsum or old paints as long as they are well bonded to the substrate, do not chalk and **Silancolor Primer** has been applied previously.

If colours with poor covering properties are applied, use **Silancolor Base Coat** instead of **Silancolor Primer**.



RECOMMENDATIONS

- Do not apply **Silancolor Paint** on damp substrates, or substrates which are not cured.

- Do not apply **Silancolor Paint** if the temperature is lower than +5°C or higher than +35°C (the surface must be dry and must not be in direct sunlight).
- Do not apply **Silancolor Paint** if the humidity level is higher than 85%.
- Do not apply **Silancolor Paint** if it is about to rain or in windy weather.
- Please refer to the "Safety instructions for preparation and application".

APPLICATION PROCEDURE

Preparing the substrate

New surfaces that need to be treated or any restoration with repair mortars must be cured, perfectly clean, well bonded and dry.

Completely remove any traces of oils or grease on the surfaces and any loose parts. Seal cracks and repair damaged concrete with mortars from the **Mapegrout** range. Seal pores and level any uneven parts of the substrate with **Monofinish** or **Mapefinish**.

Apply **Silancolor Primer** (ready-to-use). After 12-24 hours apply **Silancolor Paint**.

Preparing the product

Dilute **Silancolor Paint** with 15-25% water making sure to mix thoroughly, using a low speed mixing drill.

For partial quantities, it is recommended to stir **Silancolor Paint** as it is before using the quantity needed.

Applying the product

Silancolor Paint is applied using conventional methods: brush, roller, spray or airless on the special dry **Silancolor Primer**.

For complete protection apply two coats within 24 hours in normal humidity and temperature conditions, and in all cases when the underlying layer is completely dry.

CLEANING

Brushes, rollers or spraying equipment (airless) can be cleaned with water before **Silancolor Paint** dries.

CONSUMPTION

Consumption is heavily influenced by the absorption and roughness of the substrate, by the colour of the paint applied and according to the application technique used. Under normal conditions, consumption is generally 0.3-0.4 kg/m² (for two coats of the product).

PACKAGING

Silancolor Paint is supplied in 20 kg and 5 kg plastic drums.

STORAGE

24 months if stored in a dry place, away from heat sources and at a temperature between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silancolor Paint is not considered dangerous according to the current regulations regarding the classification of mixtures. It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals.

We recommended working in well ventilated areas when applying the product.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:

thick liquid

Colour:

white, from the MAPEI colour chart range or in various colours obtained using the **ColorMap**® automatic colouring system



Density (EN ISO 2811-1) (g/cm ³):	approx. 1.55
Dry solids content (EN ISO 3251) (%):	approx. 65
Brookfield viscosity (mPa·s):	approx. 29,000 (rotor 6 - 20 rpm)
APPLICATION DATA	
Dilution rate:	15-25% with water
Waiting time between each coat:	minimum of 24 hours in normal humidity and temperature conditions, and always with a completely dry substrate
Application temperature range:	from +5°C to +35°C
Consumption (kg/m ²):	0.3-0.4 (two coats)
FINAL PERFORMANCE	
VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l):	≤ 5
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):	≤ 28
Colour variation after 200 hours exposure to a Weather-Ometer (ASTM G 155 cycle 1):	Δ E < 1
Vapour diffusion resistance coefficient μ (EN ISO 7783):	600
Resistance to passage of vapour relative to a 0.1 mm-thick dry coat S _D (EN ISO 7783) (m):	0.06
Capillary action water absorption coefficient W (EN 1062-3) [kg/(m ² ·h ^{0.5})]:	0.06
S _D x W = 0.06 x 0.06:	0.0036 kg/(m ² ·h ^{0.5}) The value of S _D x W is less than 0.1, therefore, being also S _D ≤ 2 and W ≤ 0.5, Silancolor Paint respects Kuenzle's Theory (DIN 18550)
EN 13300 CLASSIFICATION	
Hiding power at spreading rate of 10 m ² /l EN ISO 6504-3:	> 94% class 4
Wet scrub resistance 200 cycles EN ISO 11998:	6 micron class 2
Specular gloss 85° EN ISO 2813:	2.0 dead matt
Fineness of grind EN 21524:	< 100 micron fine

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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