



MAPEI

Silancolor Paint

**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 dehumidifying renders.
- Re-painting over old paint.

TECHNICAL CHARACTERISTICS

Silancolor 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.





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 (g/cm ³):	approx. 1.58
Brookfield viscosity (mPa-s):	approx. 29,000 (rotor 6 - 20 rpm)
Dry solids content (%):	approx. 65
Storage:	24 months in original packaging
Hazard classification according to EC 1999/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3209 9000 00
APPLICATION DATA (at +23°C and 50% R.H.)	
Dilution rate:	15-25% with water
Dust dry:	20- 30 minutes
Waiting time between each coat:	12 hours
Drying time:	24 hours
Application temperature range:	from +8°C to +35°C
Consumption (kg/m ²):	0.2-0.3 for two coats
FINAL PERFORMANCE	
Damp abrasion: – after 4 days: – after 200 hours exposure to a Weather-Ometer: – after 400 hours exposure to a Weather-Ometer:	> 10,000 cycles > 10,000 cycles > 10,000 cycles
Colour variation after 200 hours exposure to a Weather-Ometer:	Δ E < 1
Vapour diffusion resistance coefficient (DIN 52615) (μ):	600
Resistance to passage of vapour of a 100 μm-thick layer in equivalent metres of air (Sd) (m) (DIN 52615):	0.06
Capillary action water absorption coefficient W (DIN 52617) in kg/(m ² ·h ^{0.5}):	0.06
Sd x W = 0.06 x 0.06:	3.6-10-3 kg/(m ² ·h ^{0.5}) The value of Sd x W is less than 0.1, therefore Silancolor Paint respects KUENZLE's Theory (DIN 18550)

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 +10°C.
- Do not apply **Silancolor Paint** if the humidity level is higher than 85%.
- Do not apply **Silancolor Paint** if rain is forecast, in windy weather or under direct sunlight.
- 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.

Cleaning

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

CONSUMPTION

0.20-0.30 kg/m² (reference is made to 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 as dangerous according to the European regulation regarding the classification of mixtures. It is however recommended to use gloves, eye/face protection and to take the usual precaution when handling chemical products.

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

PRODUCT FOR PROFESSIONAL USE.

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 web site www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com

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Paint



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