



MAPEI



Silancolor Paint Plus

**Siloxane paint for the
hygiene of walls, in internal
and external applications**

**WATER-REPELLENT AND
TRANSPIRANT**

MOULD AND ALGAE RESISTANT



WHERE TO USE

For painting walls which are particularly prone to the destructive action of algae, mould and fungi, to form a long-lasting protective coat on the substrate towards such micro-organisms.

The treatment for the walls is particularly long-lasting due to the water-repellent and breathable properties of the paint.

Some application examples

- Painting façades damaged by algae and mould.
- Painting north-facing façades.
- Painting internal environments where there is mould (e.g. bathrooms and kitchens where thermal bridges are present).

TECHNICAL CHARACTERISTICS

Silancolor Paint Plus is particularly resistant to the growth of algae, mould and fungi. It may be used to paint walls which already have a problem with such micro-organisms, after a preliminary cleaning treatment to remove them from the surface, or as a preventative measure for painting buildings in particularly damp environments, where the growth of such organisms is more prolific. A typical application is on north-facing walls, which are particularly prone to the growth of mildew due to the these walls being damper and cold.

Silancolor Paint Plus is a silicone resin-based paint in water dispersion, and apart from the aforementioned



properties, it also possesses other advantages normally associated with this kind of product, that is, extremely high water-repellence and good permeability to vapour. Unlike normal synthetic paints, it forms a thin porous film on the surface rather than a coat. Also, the use of special silicone resins means that water is unable to penetrate, to guarantee that the wall remains dry under all conditions.

The double, synergic action of **Silancolor Paint Plus**, performed by the special components contained in the paint, eliminates all the environmental causes which normally favour the growth of micro-organisms and therefore offers excellent protection for the façade.

Silancolor Paint Plus contains an anti-mould and anti-algae agent.

Silancolor Paint Plus, used in conjunction with **Silancolor Primer Plus** and, where necessary, with **Silancolor Cleaner Plus**, forms a complete, efficient protective system, which is able to offer a long-lasting means of defence for the surface.

Silancolor Paint Plus bonds perfectly to all types of conventional and de-humidifying renders and to old, well-bonded paintwork. Its water-repellent properties protect the substrate from chemical attack, attracts very little dirt, is highly resistant to the washing effect of rainwater and is very hard-wearing.

Silancolor Paint Plus is highly resistant to alkalis, washing cycles, UV rays and ageing, and maintains its characteristics for a very long period of time.

Apart from its protective properties, **Silancolor Paint Plus** leaves an attractive finish and gives a smooth, opaque surface which is velvety to the touch. It is available in a wide range of colours, which may be obtained using the **ColorMap**[®] automatic colouring system.

RECOMMENDATIONS

- Do not apply the product directly on surfaces which are infested with mildew, mould or fungi; all traces must be removed beforehand using **Silancolor Cleaner Plus** followed by a treatment with **Silancolor Primer Plus**.
- Always use **Silancolor Primer Plus** before applying **Silancolor Paint Plus**.
- Do not apply **Silancolor Paint Plus** on damp substrates or on substrates that are not well cured.
- Do not apply **Silancolor Paint Plus** if the temperature is lower than +5°C or higher than +35°C (the surface must be dry in all cases and must never be exposed to direct sunlight).
- Do not apply **Silancolor Paint Plus** if the level of humidity is higher than 85%.

- Do not apply **Silancolor Paint Plus** if it is about to rain or in windy weather.
- Please refer to the "Safety instructions for preparation and application" section.

APPLICATION PROCEDURE

Preparing the substrate

New surfaces or surfaces which have been patched with repair mortar must be well cured, perfectly clean, sound and dry. Completely remove all traces of oil or grease from the surface and areas which are not well attached.

If present, eliminate all traces of algae, mould and fungi. They must only be removed while damp, that is, after the surface has been thoroughly cleaned with **Silancolor Cleaner Plus**.

Apply **Silancolor Cleaner Plus** to the entire surface using a low-pressure, manual spray gun or with a brush. Let the product penetrate into the surface, and then wait for a few minutes while the cleaning action takes place. Remove the algae, mould and fungi with a brush.

Repeat this operation a number of times, and apply **Silancolor Cleaner Plus** continuously to help it to penetrate deep down.

Seal any cracks which are present and repair the parts which are in poor condition.

Seal off the porosity and smooth off any uneven areas in the substrate with mortars and smoothing compounds from the MAPEI Building Products line.

Apply **Silancolor Primer Plus** on the dry, cured substrate, and after 12-24 hours apply **Silancolor Paint Plus**.

Preparing the product

Dilute **Silancolor Paint Plus** with 15-20% of water, making sure that the product is well-blended by using a low-speed drill if necessary.

If only a part of the product is to be prepared, stir the **Silancolor Paint Plus** in its original container before pouring off the quantity required.

Applying the product

Apply **Silancolor Paint Plus** using traditional techniques with a brush, a roller, by air-spraying or with an airless spray-gun system on top of a coat of dry **Silancolor Primer Plus** primer.

The protection cycle requires at least two coats of **Silancolor Paint Plus**. Under normal humidity and temperature conditions, wait 24 hours between each coat.

Cleaning

Before it dries clean **Silancolor Paint Plus** from brushes, rollers and spraying equipment with water.

CONSUMPTION

Consumption is heavily influenced by the absorption and roughness of the substrate, the colour of paint applied and the tools used for application. Under normal conditions, consumption is generally 0.3-0.4 kg/m² (for 2 coats of product).

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/cm³):	approx. 1.55
Dry solids content (EN ISO 3251) (%):	65

APPLICATION DATA

Dilution rate:	15-20% of water
Waiting time between each coat:	at least 24 hours under normal humidity and temperature conditions, and in all cases only when the previous layer is completely dry
Application temperature:	from +5°C to +35°C
Consumption (kg/m²):	0.3-0.4 (in 2 coats)

FINAL PERFORMANCE DATA

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 1000 hours exposure to a weather-meter (according to ASTM G 155 cycle 1 Standards), white colour:	ΔE < 1
Colour variation after 1000 hours exposure to a weather-meter (according to ASTM G 155 cycle 1 Standards), grey colour:	ΔE < 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/(m²·h^{0.5}):	0.06
S_D·W =:	0.0036 [kg/(m·h ^{0.5})] The value of S _D × W is less than 0.1, therefore, being also S _D ≤ 2 and W ≤ 0.5, Silancolor Paint Plus respects Kuenzle's Theory (DIN 18550)

CLASSIFICATION ACCORDING TO EN 13300

Hiding power at spreading rate of 10 m²/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

Silancolor Paint Plus

PACKAGING

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

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silancolor Paint Plus can cause sensitisation in contact with the skin of predisposed subjects. During the application it is recommended to wear protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or the skin wash immediately with plenty of water and seek medical attention. If the product is applied in closed environments, make sure the area is well ventilated.

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.

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



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



BUILDING THE FUTURE