



Silancolor Paint Plus

**Mould and mildew resistant
siloxane paint for internal
and external application**



**WATER-REPELLENT AND
TRANSPIRANT**

MOULD AND MILDEW RESISTANT



WHERE TO USE

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

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

Some application examples

- Painting façades damaged by mildew 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 mildew, 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



TECHNICAL DATA (typical values)

PRODUCT DETAILS

DESCRIPTION

Silicone resin-based, highly breathable, water-repellent, anti-mildew and anti-mould paint in water dispersion, for internal and external applications

WHERE TO USE

For painting walls which are particularly prone to the destructive action of mildew, mould and fungi

CHARACTERISTICS

Appearance:	thick liquid
Dry solids content (%):	65
Density (g/cm ³):	approx. 1.55
Theoretical yield (m ² /kg):	3-5
Damp abrasion resistance:	> 10,000 cycles
Colour variation after 1000 hours exposure to a weather-meter (according to ASTM G 155 cycle 1 Standards), white colour:	$\Delta E < 1$
Colour variation after 1000 hours exposure to a weather-meter (according to ASTM G 155 cycle 1 Standards), grey colour:	$\Delta E < 1$
Vapour diffusion resistance coefficient (μ) (DIN 52615):	339
Resistance to passage of vapour relative to a 0.20 mm-thick dry coat Sd (m) (DIN 52615):	0.07
Water absorption coefficient due to capillary lift W24 [kg/(m ² ·h ^{0.5})] (DIN 52617):	0.09
Sd·W =:	0.006 [kg/(m·h ^{0.5})] The value of Sd x W is less than 0.1, therefore Silancolor Paint Plus respects Kuenzle's Theory (DIN 18550)
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

PREPARATION

Dilute **Silancolor Paint Plus** with 15-20% water and mix until completely blended

DRYING: by air

Ready for painting over: 24-48 hours

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 protects the façade.

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 dehumidifying 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**.

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 mildew, 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 mildew, 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.

Silancolor Primer Plus may then be applied after approximately 12-24 hours, or once the wall has completely dried.

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.

Do not apply **Silancolor Paint Plus** if rain is forecast or during windy weather.

Do not apply if the temperature is lower than +10°C.

Do not apply if the humidity is greater than 85%.

Cleaning

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

CONSUMPTION

0.2-0.3 kg/m² (refers to two coats of the product).

PACKAGING

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

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.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silancolor Paint Plus is solvent-free.

Therefore, only the normal precautions when using water-based paints need to be taken. However, if the product is applied in a closed place, make sure that the area is sufficiently ventilated. Do not dispose of the product to the environment.

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

Silancolor
Paint Plus



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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