SILANCOLOR BASE COAT

Water-repellent, coloured siloxane undercoat with a smooth finish and good filling properties for internal and external surfaces





WHERE TO USE

- Base filling layer, with quartz granules, for new, well-cured render before applying layered finishing materials from the **Silancolor** range.
- Base evening and filling layer for old render, if not excessively deteriorated or crumbly, before applying layered finishing materials from the **Silancolor** range.
- Base filling layer for de-humidifying render before applying layered finishing materials from the **Silancolor** range.
- Base layer on old paintwork, including paintwork which is slightly flaky, before applying layered finishing materials from the **Silancolor** range.
- Base layer with the same colour as the final layer, to help covering of the final layer of paint or layered finishing material in bright, lively colours, which are clean and only offer partial covering.

Some application examples

Silancolor Base Coat is used to prepare the base layer on cementitious surfaces before applying the final colouring coat, to regulate absorption of the substrate and improve bonding.

Silancolor Base Coat is indispensable when “scratch-effect” finishes are applied, to avoid the substrate showing through the more transparent part.

Silancolor Base Coat may be used to even out the surface, by creating an even finish and by covering small imperfections.

When applied in white, or in a colour similar to the final coat, it helps to integrate the final coat particularly when bright, lively colours are applied, which do not usually have good covering properties.

TECHNICAL CHARACTERISTICS

Silancolor Base Coat is a coloured silicone resin-based based paint in water dispersion, with micro-granular quartz and selected charges. It is used to even out the absorption of the substrate and promote bonding of successive coats of paint and layered finishing materials from the **Silancolor** range.

Silancolor Base Coat works in synergy with coloured finishes, to increase the duration of the protective finish and increase the water repellence of **Silancolor** finishing systems.

Surfaces treated with **Silancolor Base Coat** have a uniformly rough finish, which makes it easier to apply layered finishing materials, particularly when applied by trowel. This results in a more even distribution of the finishing material over the entire surface.

Silancolor Base Coat is available in a wide range of colours, created using the **ColorMap**® automatic colouring system.

RECOMMENDATIONS

- Do not use **Silancolor Base Coat** on metal surfaces.
- Do not apply **Silancolor Base Coat** if the temperature is lower than +5°C or higher than +35°C.
- Do not apply **Silancolor Base Coat** if the humidity is higher than 85%.
- Do not apply **Silancolor Base Coat** on damp or partially-cured substrates.
- Do not apply **Silancolor Base Coat** if rain is forecast, in windy weather or under direct sunlight.
- **Silancolor Base Coat** is not a consolidator and should never be applied on detached surfaces that are not firmly anchored to the substrate.
- Please refer to the "Safety instructions for preparation and application" section.

APPLICATION PROCEDURE

Preparation of the substrate

New surfaces or surfaces patched up with repair mortar must be cured, perfectly clean, regular and dry.

Completely remove all traces of oil or grease from the surface and parts which are not well attached.

Seal any cracks which are present and repair any deteriorated areas.

Seal off the porosity and smooth off any uneven parts in the substrate.

Preparation of the product

Silancolor Base Coat may be used as is, or diluted with 5-10% water. Make sure that the product is well blended, and use a low speed drill if possible for blending.

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

Application of the product

Mix **Silancolor Base Coat** well before use, and apply it using conventional techniques with a brush, a roller or by spray (air mix).

A single coat of **Silancolor Base Coat** is usually sufficient to prepare the substrate. However, if the substrate is particularly uneven, a second coat may be required.

Protect from rain for at least 12-24 hours.

Silancolor Base Coat may be painted over after 12-24 hours.

CLEANING

Clean **Silancolor Base Coat** from brushes, rollers and spraying equipment (air mix) before it dries, with water.

CONSUMPTION

Consumption is heavily influenced by the absorption and the roughness of the substrate and by imperfections on the surface, and according to the application technique used.

Under normal conditions, consumption is generally 0.3-0.5 kg/m² per coat.

PACKAGING

Silancolor Base Coat is available in 20 kg plastic drums.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Avoid release to the environment. Collect spillage. Do not dispose of rinsing water into the environment. Dispose waste in accordance with the local rules.

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	pasty 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. 1.58
Dry solids content (EN ISO 3251) (%):	approx. 67
Brookfield viscosity (mPa·s):	approx. 30,000 (rotor 6 - 10 rpm)

APPLICATION DATA	
Dilution ratio:	ready to use or 5-10% 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):	0.3-0.5 (per coat)

FINAL PERFORMANCE	
VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l):	≤ 20
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):	≤ 30

Vapour diffusion resistance coefficient (μ) (EN ISO 7783):	300
Resistance to passage of vapour relative to a 0.15 mm-thick dry layer Sd (m) (EN ISO 7783):	0.04
Capillary action water absorption coefficient W_{24} [kg/(m²h$^{0.5}$)] (EN 1062-3):	0.24
Sd·W = 0.04 x 0.24 [kg/(m·h$^{0.5}$)]:	0.0096 The value of Sd·W is less than 0.1, therefore **Silancolor Base Coat** respects Künzel Theory (DIN 18550)

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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The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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