

SILANCOLOR PITTURA

Indoor and outdoor water-repellent, breathable silicone-base paint, resistant to moulds and algae, with fully offset Residual Greenhouse Gas emissions



BENEFITS AND FEATURES

- Highly water-repellent
- Excellent breathability
- Protection from moulds and algae
- Resistant to harsh weather conditions
- Perfectly compatible with mineral substrates

CO₂e FULLY OFFSET PRODUCTS

Residual Greenhouse Gas emissions measured throughout the life cycle of this product using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset for the year 2026 through the acquisition of carbon credits in support of forestry protection projects. For more details on emission calculations and offsetting projects, visit mapei.com

WHERE TO USE

Painting façades subject to critical weather conditions and outdoor walls where excellent breathability and high water-repellence are required, including those particularly exposed to the damaging action of algae, moulds and fungi, to provide substrates with long-lasting protection against such forms of microorganisms.

Some application examples

- Painting renders created using products from **Mape-Antique**, **Mape-Antique NHL ECO** and **PoroMap** ranges.
- Painting lime-based render and cement in general.
- Painting de-humidifying renders
- Painting façades subjected to biological aggression (e.g. north-facing façades) or already damaged by algae and mould.
- Renovation of old finishes, especially on buildings of architectural and historical interest.

TECHNICAL CHARACTERISTICS

Silancolor Pittura is a silicone-base paint in water dispersion, with fully offset greenhouse gas emissions.

Silancolor Pittura combines the advantages of traditional mineral based paints with the ones of synthetic paints. Thanks to its particular formulation, the product does not alter the substrate's breathability and makes it highly water-repellent. Once applied, **Silancolor Pittura** forms a film with micropores sufficiently tight to repel water and at the same time wide enough to allow the passage of water vapour, thus maintaining the wall dry.

Silancolor Pittura perfectly adheres to all types of traditional render, de-humidifying renders and old well-adhering paints. The water-repellent properties of **Silancolor Pittura** protect the substrate from chemical aggression, making it very difficult for dirt to attach to the surface and making the substrate highly resistant to washings and durable over time.

Silancolor Pittura is particularly resistant to the growth of algae, moulds and fungi. It may be used to paint walls that have already been damaged by such microorganisms after removing them and cleaning the surface, or to prevent them forming by painting buildings (and structures) in areas where the particularly damp climate encourages their growth. A typical example of application is painting north-facing façades, which are particularly subjected to algae growth being the coldest and dampest walls of the building.

Silancolor Pittura contains a product specifically **formulated to control the growth of mould and algae**.

Silancolor Pittura, used in combination with **Silancolor Primer Plus** or **Silancolor Base Coat Plus** and, where necessary, with **Silancolor Cleaner Plus**, forms a complete protection system against biological aggression and provides a defence for surfaces which remains durable over the years.

Apart from protecting substrates, **Silancolor Pittura** forms an attractive finish and is available in a wide range of colours, obtained using the ColorMap® automatic tinting system.

RECOMMENDATIONS

- Do not apply **Silancolor Pittura** on damp substrates or on substrates which are not fully cured.
- Do not apply **Silancolor Pittura** if the temperature is lower than +5°C or higher than +35°C (the surface must always be dry and must never be in direct sunlight).
- Do not apply **Silancolor Pittura** if the level of humidity is higher than 85%.
- Do not apply **Silancolor Pittura** if it is about to rain or in windy weather.
- Do not apply directly on surfaces where algae, mould or fungi have already formed. Remove them beforehand using **Silancolor Cleaner Plus**.

APPLICATION PROCEDURE

Preparation of the substrate

New surfaces requiring treatment, or areas patched up with repair mortar, must be well cured, perfectly clean, compact and dry.

Remove all traces of oil and grease and parts which are not well bonded to the surface. Remove all traces of algae, mould and fungi, if already formed. Removal must be carried out when the surface is wet, after thoroughly washing the surface with **Silancolor Cleaner Plus**.

Silancolor Cleaner Plus must be applied on the whole surface using a low-pressure hand spray pump or a brush, leaving the product to react for a few minutes and letting it penetrate deep in the substrate. Then remove algae, moulds and fungi mechanically by brushing. Repeat application more than once and continuously apply **Silancolor Cleaner Plus**, allowing it to penetrate deep in the substrate. Seal any cracks if present and repair damaged areas before application. Fill pores in concrete and level off irregularities on the substrate using mortars and skimcoats from MAPEI Building Line.

Carry out the suitable treatment on the dry and cured substrate depending on specific needs: under normal conditions, use **Silancolor Primer**. In case of poor coverage paints, use **Silancolor Base Coat** pigmented base coat.

In case of already contaminated surfaces or surfaces that are particularly exposed to the aggression of mould and algae, use **Silancolor Primer Plus** hygienizing primer or, in case of poor coverage paints, the pigmented hygienising base coat **Silancolor Base Coat Plus**.

Preparation of the product

Dilute **Silancolor Pittura** with 15-20% of water and mix using a drill at low-speed until completely blended.

For the preparation of partial quantities, it is recommended to accurately stir **Silancolor Pittura**, as it is, before pouring the material from the original container.

Application of the product

Apply **Silancolor Pittura** using traditional techniques: by brush, roller or spray over the dry coat of specified primer.

The protection cycle requires two coats of **Silancolor Pittura** at 12-24 hours between coats, in normal conditions of humidity and temperature, and in any case when the previous layer is completely dry.

CLEANING

Remove **Silancolor Pittura** from brushes, rollers or spray equipment with water before it dries.

CONSUMPTION

Consumption is heavily influenced by the roughness and porosity of the substrate, as well as by the colour of the finish and the tool used for application. Under normal conditions, consumption is of approx. 0.3-0.4 kg/m² (two coats of product).

PACKAGING

Silancolor Pittura is supplied in 5 kg and 20 kg recycled plastic drums.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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.

TECHINICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	thick liquid
Colour:	white, colour chart, or various colours using the ColorMap [®] automatic tinting system
Density (EN ISO 2811-1):	approx. 1.55 g/cm ³
Dry solids content (EN ISO 3251):	65%

APPLICATION DATA

Dilution rate:	15-20% of water
Waiting time between coats:	12-24 hours under normal humidity and temperature conditions, and in all cases, only when the previous coat is completely dry
Application temperature:	from +5°C to +35°C
Consumption:	0.3-0.4 kg/m ² (in two coats)

FINAL PERFORMANCE

VOC content of ready-mixed product (white) (European Directive 2004/42/EC):	≤ 5 g/l
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC):	≤ 10 g/l
Change in colour after 1,000 hours of exposure to a Weather-Ometer (according to ASTM G 155 cycle 1), white:	Δ E <1
Change in colour after 1,000 hours exposure to a Weather-Ometer (according to ASTM G 155 cycle 1), grey:	Δ E <1
Resistance to water vapour for 0.1 mm dry film thickness S _D (ISO ISO 7783):	0.13 m
Capillary action water absorption W (EN 1062-3):	0.04 kg/(m ² ·min ^{0.5})
SD·W =:	0.0052 kg/(m·h ^{0.5}) S value D x W is lower than 0.1 and, being S _D ≤ 2 and W ≤ 0.5, Silancolor Pittura meets Künzle theory (DIN 18550)

RESISTANCE TO BIOLOGICAL AGGRESSION

Resistance to mould and fungi (EN 15457):	no growth
Resistance to algae (EN 15458):	no growth

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.

The values declared in the TECHNICAL DATA table (typical values) were obtained in compliance with test methods and curing cycles defined in the technical standards referenced therein. Therefore, please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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

LEGAL NOTICE

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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