SILANCOLOR BASE COAT PLUS

Hygienising siloxane based pigmented base coat, for internal and external application, evens out the surfaces and mould and algae resistant





WHERE TO USE

Base layer for the preparation of **walls which are already contaminated by microbial growth**, or as precautionary measure in buildings located in **very humid environments** conducive to mould and algae spread. **Silancolor Base Coat Plus** gives a **water repellent and protective property** since the beginning of the painting cycle and contributes to eliminate the causes that lead to the degradation of surfaces due to mould and algae growth.

When applied in white, or in a colour similar to the final coat, it helps the full decoration of products in bright tones, which have generally a low hiding power.

Some application examples

- Base layer to uniform the absorption of the substrate to achieve a suitable surface for the following application of paints or coatings in MAPEI **Plus range** of products, wherever an increased protection against mould, algae and fungi is required.
- Base layer with an even, smooth and hiding finish for all new and well cured lime or cement based plasters, or old, cohesive, well adherent and non-chalking renders.
- Base layer with a smooth hiding finish for old, well adherent paintwork, prior to the application of paints or coatings of MAPEI **Plus range** of products.
- Coloured base layer for the full coverage of finishing paints and coatings in bright and clean colours, with low hiding power.

TECHNICAL CHARACTERISTICS

Silancolor Base Coat Plus is a pigmented silicone resin paint in water dispersion and selected fillers. It is applied to uniform the absorption of the substrate and to promote the adhesion of the **finishing products of the Mapei PLUS range of products.**

Thanks to its special **mould, algae and fungi resistant** formulation, **Silancolor Base Coat Plus** is indicated for applications on walls which are already contaminated by microbial growth, after removal and cleaning of the surfaces, or to grant a durable protection in areas subject to the spread of these microorganisms.

Silancolor Base Coat Plus works in synergy with the coloured finishes, to extend the lifetime of the protective layers and to **increase the water repellence** of the **Silancolor and Silancolor AC** systems.

Surfaces treated with **Silancolor Base Coat Plus** have a uniform smooth finish, to improve application and promotes adhesion of the following layers of paints or coatings, in interior and exterior.

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

RECOMMENDATIONS

- Do not apply **Silancolor Base Coat Plus** directly on surfaces which are infested by algae, mould or fungi which must previously be removed with **Silancolor Cleaner Plus**.
- Do not apply **Silancolor Base Coat Plus** when rain is imminent or with windy weather.
- Do not apply **Silancolor Base Coat Plus** if temperatures are below +5°C or higher than +35°C (in any case the substrate must be dry and not under direct sunlight).
- Do not apply **Silancolor Base Coat Plus** when humidity is higher than 85%.
- **Silancolor Base Coat Plus** is not a consolidating primer, therefore, it must not be applied on chalky renders or substrates which are not cohesive and well adherent.
- Please refer to the "Safety instructions for preparation and application" section.

APPLICATION PROCEDURE

Preparation of the substrate

New surfaces or areas restored with repair mortars must be well cured, perfectly clean, cohesive and dry.

Remove all traces of oil and grease from the surface and any loose or flaking material. Existing algae, mould and fungi must be removed while damp, that is after washing the surface with **Silancolor Cleaner Plus**.

Silancolor Cleaner Plus must be applied on the entire surface with a low pressure, manual spray gun or with a brush. Let the product penetrate into the surface and wait for a few minutes while the cleaning action takes place. Remove algae, mould and fungi with a brush. Repeat this operation a few times applying **Silancolor Cleaner Plus** continuously to help it penetrate deeply. Seal any cracks and repair deteriorated areas. Seal the porosity and smooth uneven areas with mortars and smoothing renders from the MAPEI Building Line.

Preparation of the product

Silancolor Base Coat Plus may be used undiluted, or diluted with max. 10% water. Make sure that the product is thoroughly mixed using, if possible, a low speed drill.

When preparing only partial quantities, we recommend mixing undiluted **Silancolor Base Coat Plus** before pouring the required quantity off the original bucket.

Application of the product

Mix **Silancolor Base Coat Plus** well before use, and apply by brush, roller or by spray. In exterior, protect from rain for at least 24 hours. **Silancolor Base Coat Plus** is suitable for over-coating after 12-24 hours, according to humidity and temperature conditions.

CLEANING

Brushes, rollers and other tools used to apply **Silancolor Base Coat Plus** may be cleaned with water before the product dries.

CONSUMPTION

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

generally about 0.2-0.3 kg/m² (for one coat).

PACKAGING

Silancolor Base Coat Plus is supplied in 20 kg plastic buckets.

STORAGE

24 months if stored in a dry place, sheltered from heat sources at temperatures between +5°C and +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:	thick liquid
Colour:	white, in colours from the MAPEI colour chart range or in various colours obtained using the **ColorMap**® automatic tinting system
Density (EN ISO 2811-1) (g/cm³):	approx. 1.60
Dry solids content by weight (EN ISO 3251) (%):	approx. 68

APPLICATION DATA	
Dilution rate:	ready to use or dilute with 10% of water
Re-coat time:	12-24 hours according to humidity and temperature conditions, and in any case, only when the previous layer is completely dry
Application temperature range:	from +5°C to +35°C
Consumption (kg/m²):	0.2-0.3 per coat

FINAL PERFORMANCE	
VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l):	≤ 10
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):	≤ 25
Vapour diffusion resistance coefficient μ (EN ISO 7783):	600

Resistance to the passage of vapour of a 0.1 mm thick dry layer S_D (EN ISO 7783) (m):	0.06
Capillary action water absorption coefficient W (EN 1062-3) [kg/(m²·h$^{0.5}$)]:	0.2
Silancolor Base Coat Plus follows the Künzel theory (DIN 18550) being S_D x W < 0.1, S_D ≤ 2 and W ≤ 0.5	

RESISTANCE TO BIOLOGICAL ATTACK (I.M.S.L. test report)		
Applicable standard	**Test**	**Results**
EN 15457	**resistance to mould and fungi**	no growth
EN 15458	**resistance to algae**	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. 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

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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