MAPEI

Silancolor Tonachino

Siloxane plaster for internal and external application

IN COMPLIANCE WITH EUROPEAN STANDARD EN 15824 V1 W3 MAPEI EXTERNAL AND INTERNAL PLASTERS BASED ON ORGANIC BINDERS

CE EN 15824

WATER-REPELLENT AND TRANSPIRANT

HIGH FILLING PROPERTIES

WHERE TO USE

Silicone resin based plaster in paste form available in different grain sizes for “rustic” effect exterior finishings, suitable for walls requiring attractive finishing, excellent water-repellence and vapour permeability.

Some application examples

- Decoration of cement or lime based renders.
- Decoration of **Mape-Antique**-based renders.
- Decoration of dehumidifying renders.
- Coating of existing paint (after a preventive trial).

TECHNICAL CHARACTERISTICS

Silancolor Tonachino is a fibroreinforced silicone resin-based plaster that has the advantages of both mineral-based coats (high vapour permeability such as **Silexcolor Tonachino**) and synthetic based coats (uniform colour tone, excellent adhesion on existing paints that are well bonded to the substrate and a wide range of colours). Thanks to its special formula, **Silancolor Tonachino** makes the substrate very permeable to water vapour and considerably water repellent. Unlike normal synthetic coatings, **Silancolor Tonachino** does not create a film that is waterproof to water vapour because it creates a porous film and, at the same time, the use of special silicone resins does not let liquid water penetrate, ensuring the render remains dry.
Silancolor Tonachino contains synthetic fibres for good crack resistance.

Silancolor Tonachino adheres perfectly onto all types of traditional renders, dehumidifiers and well bonded existing paints. Due to its water repellent nature, it protects the substrate from chemical aggression, does not dirty easily, has excellent resistance if exposed to U.V rays and ageing, retaining its properties during the years.
Silancolor Tonachino does not only protect the surface, but has a very pleasant rustic appearance. Apart from the colours available from the "Colour choice" colour chart, **Silancolor Tonachino** is also available in a wide range of colours obtained using the **ColorMap**® automatic colouring system.
Always apply a coat of **Silancolor Primer** or **Silancolor Base Coat** before applying **Silancolor Tonachino**. When applying on well bonded existing paint, check the absorbency before deciding if the application of **Silancolor Primer** or **Silancolor Base Coat** is necessary.
Silancolor Tonachino complies with the requirements of EN 15824 ("*Specifications for external renders and internal plasters based on organic binders*") for internal and external use.

RECOMMENDATIONS

- Do not apply **Silancolor Tonachino** on damp substrates, or on substrates which are not well cured.
- Do not apply **Silancolor Tonachino** at temperatures lower than +5°C or greater than +35°C.
- Do not apply **Silancolor Tonachino** if the humidity level is higher than 85%.
- Do not apply **Silancolor Tonachino** if it is about to rain, in windy weather or if there is direct sunlight.
- Please refer to the "Safety instructions for preparation and application" section.

APPLICATION PROCEDURE

Preparing the substrate

New surfaces to be treated or any renovation with repair mortars must be cured, perfectly clean, well bonded and dry.
Completely remove any traces of oils or grease from the surfaces and any loose particles.
Seal cracks and repair damaged parts.
Seal pores and level any uneven parts of the substrate with mortars and finishing compounds from the MAPEI Building line.
Apply **Silancolor Primer** (ready-to-use) or **Silancolor Base Coat**. After 12-24 hours apply **Silancolor Tonachino**.
To make it easier to apply 1.2 mm, 1.5 mm and 2.0 mm grain size **Silancolor Tonachino** and to improve its covering properties, **Silancolor Primer** may be applied after diluting it with 30-50% of **Silancolor Paint** of the same colour of **Silancolor Tonachino**, or with a similar coloured coat of **Silancolor Base Coat**.
Painted surfaces must be clean and well bonded to the substrate. If the paint is very old and/or porous, apply **Silancolor Primer** or **Silancolor Base Coat**.
If the paint is well bonded and not very porous, apply **Silancolor Tonachino** directly.

Preparing the product

Silancolor Tonachino is ready-to-use, but must first be stirred thoroughly with a low speed mixing drill. If the product is too viscous, add 1-2% of water.

Applying the product

Apply **Silancolor Tonachino** with a stainless or plastic trowel on the dried **Silancolor Primer** or **Silancolor Base Coat**.
The protection cycle requires one coat of **Silancolor Tonachino**. If a more even finish is required, apply a smoothing layer followed by a second layer after 24 hours.
In both cases make sure the product is evenly distributed using a wet plastic float for an even effect or a wet sponge depending on the desired effect.
A number of effects may be obtained using **Silancolor Tonachino** (such as, brushed finish, bass-relief finish, etc.) as illustrated in the "MAPEI colours in design" pamphlet.

Cleaning

The equipment used for application can be cleaned with water before **Silancolor Tonachino** dries.

CONSUMPTION DEPENDANT TO GRAIN SIZE

- **Silancolor Tonachino** 0.7 mm: 1.7-2.0 kg/m^2 for a complete cycle;
- **Silancolor Tonachino** 1.2 mm: 1.9-2.3 kg/m^2 for a complete cycle;
- **Silancolor Tonachino** 1.5 mm: 2.2-2.6 kg/m^2 for a complete cycle;
- **Silancolor Tonachino** 2.0 mm: 2.6-3.0 kg/m^2 for a complete cycle.

For all versions, consumption is greatly influenced by the roughness of the substrate.

PACKAGING

Silancolor Tonachino is supplied in 20 kg plastic buckets.

STORAGE

24 months if stored in a dry place, far from heat sources and at a temperature between +5°C and +30°C.
Protect from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silancolor Tonachino is not hazardous according to the ruling norms on the classification of mixtures. It is recommended to wear protective gloves ad goggles and to take the usual precautions for handling chemical products.
If the product is applied in a closed area, make sure that it is well ventilated.
For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

TECHNICAL DATA (typical values)

Complies with the following standard:	**– product certified according to EN 15824 (Specifications for external renders and internal plasters based on organic binders), conformity certification system 3 (also for applications subject to reaction to fire regulations).** **– type according to EN 15824: water-based product for internal and external use**
PRODUCT IDENTITY	
Colour:	white, colour range or colours that can be obtained with the **ColorMap®** colour system
Aspect:	paste
Density (g/cm³):	1.65-1.95 (depending on the grain size)
Dry solids content (%):	approx. 80
Viscosity (mPa·s):	60,000-80,000 (depending on the grain size)
Grain size:	0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm
APPLICATION DATA	
Preparation:	ready-to-use
Application:	stainless or plastic trowel
Consumption (kg/m²):	1.7-3.0 (depending on the grain size)
Drying:	in open air
Painting:	12-24 h

PERFORMANCE CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 15824-2 TEXTURED COATINGS FOR INTERNAL AND EXTERNAL USE BASED ON ORGANIC BINDERS

Standard	Test	RESULTS AND COMPLIANCE WITH THE REQUIREMENTS				
		Grain sizes	**0.7 mm**	**1.2 mm**	**1.5 mm**	**2.0 mm**
EN ISO 7783-2	**water vapour permeability**	S_D (m)	0.11	0.09	0.09	0.09
		consumption related to S_D (kg/m²)	2.0	2.3	2.5	2.7
		result/class	**V1 (S_D < 0.14 m)**			
EN 1062-3	**water absorption**	w [kg/(m²·h$^{0.5}$)]	0.04	0.04	0.03	0.04
		result/class	**W3 (w ≤ 0.1 [kg/(m²·h$^{0.5}$)]**			
EN 1542	**adhesion**	adhesion (N/mm²)	0.95	1.07	1.16	0.78
		type of breaking	A/B	A/B	A/B	A/B
		result/class	**complying (≥ 0.3 MPa)**			
EN 13687-3	**durability**	number of cycles	20	20	20	20
		final adhesion (N/mm²)	2.16	2.06	1.11	0.95
		type of breaking	A/B	A/B	A/B	A/B
		alterations	no	no	no	no
		result/class	**complying (≥ 0.3 MPa)**			
EN 1745	**thermal conductivity**	**result/class**	**0.93 W/mK** (tab value, P = 90%, related to the reference dry density of 1800 kg/m³)		**1.28 W/mK** (tab value, P = 90%, related to the reference dry density of 2000 kg/m³)	
EN 13501-1	**reaction to fire**	**result/class**	**A2-s1,d0**			

Silancolor Tonachino is according to Kuenzle Theory (DIN 18550) because the value of S_D x W is less than 0.1

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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

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