

SILANCOLOR TONACHINO

Siloxane plaster for internal and external application
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 and protection of all cement or lime based renders.
- Decoration and protection of **Mape-Antique** or **PoroMap** renders and all dehumidifying cycles in general.
- Decoration and protection of the **Mapetherm System** and all exterior wall insulation systems in general.
- Coating of well bonded old paintwork, old acrylic or mineral plasters.

TECHNICAL CHARACTERISTICS

Silancolor Tonachino is a fibre-reinforced 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. **Silancolor Tonachino** is available in a wide range of colours obtained using the **ColorMap**[®] automatic colouring system. **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 higher 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.
- In case of surfaces particularly exposed to the degrading action of algae, mould or fungi, choose **Silancolor Tonachino Plus**, siloxane mould-resistant plaster.

APPLICATION PROCEDURE

Preparation of 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** or **Silancolor Base Coat** on the dry and cured substrate. After 12-24 hours apply **Silancolor Tonachino**. To ease the laying of the 1.2 mm, 1.5 mm and 2 mm coatings and to improve the hiding power, the use of coloured **Silancolor Base Coat** is recommended.

Preparation of the product

Silancolor Tonachino is supplied ready to use and just needs to be well mixed with a low-speed drill. If the product is too viscous, add 1-2% of water.

Application of the product

Apply **Silancolor Tonachino** with a stainless steel or plastic trowel on the dry layer of **Silancolor Primer** or **Silancolor Base Coat**.

The product can also be applied by spray with suitable equipment.

The protection cycle requires the application of one coat of **Silancolor Tonachino**.

Spread the product in a uniform layer and level with a plastic trowel to create an even finish or use a damp sponge float to obtain the desired final effect.

According to the Tonachino grain size and the roughness of the substrate, the application can be carried out in two layers, to reach a perfectly homogeneous finish.

Silancolor Tonachino dries thanks to the physical process of water evaporation; in normal environmental conditions the product reaches complete drying in about 10 days. In the event of rain or high humidity, normal drying times increases; it is recommended to provide adequate protective measures (e.g. scaffold sheeting) to avoid imperfections on the façade.

CLEANING

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

CONSUMPTION ACCORDING TO GRAIN SIZE

- **Silancolor Tonachino** 0.7 mm: 1.7-2.0 kg/m² for a complete cycle;
- **Silancolor Tonachino** 1.2 mm: 1.9-2.3 kg/m² for a complete cycle;
- **Silancolor Tonachino** 1.5 mm: 2.2-2.6 kg/m² for a complete cycle;
- **Silancolor Tonachino** 2.0 mm: 3.0-3.5 kg/m² for a complete cycle.

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

PACKAGING

Silancolor Tonachino is supplied in 25 kg plastic buckets.

STORAGE

24 months if stored 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.

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), 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

Consistency:	paste
Colour:	white, colour range or colours that can be obtained with the ColorMap® colour system
Density (EN ISO 2811-1):	1.65-1.95 g/cm ³ (depending on the grain size)
Dry solids content (EN ISO 3251):	approx. 80%
Grain size:	0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm

APPLICATION DATA

Dilution rate:	ready-to-use
Consumption:	1.7-3.5 kg/m ² (depending on the grain size)
Recoat-time:	12-24 hours in function of 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

FINAL PERFORMANCE

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

PERFORMANCE CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 15824 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	water vapour permeability	S _D	0.11 m	0.09 m	0.09 m	0.12 m
		consumption related to S _D	2.0 kg/m ²	2.3 kg/m ²	2.5 kg/m ²	3.5 kg/m ²

		result/class	V1 ($S_D < 0.14$ m)			
EN 1062-3	water absorption	w	0.04 kg/(m ² ·h ^{0.5})	0.04 kg/(m ² ·h ^{0.5})	0.03 kg/(m ² ·h ^{0.5})	0.04 kg/(m ² ·h ^{0.5})
		result/class	W3 ($w \leq 0.1$ [kg/(m ² ·h ^{0.5})])			
EN 1542	adhesion	adhesion	0.95 N/mm ²	1.07 N/mm ²	1.16 N/mm ²	0.78 N/mm ²
		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	2.16 N/mm ²	2.06 N/mm ²	1.11 N/mm ²	0.95 N/mm ²
		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	0.89 W/mK (tab value, P = 90%, related to the reference dry density of 1800 kg/m ³)		1.21 W/mK (tab value, P = 90%, related to the reference dry density of 2000 kg/m ³)	
EN 13501-1	reaction to fire	result/class	A2-s1,d0			

Silancolor Tonachino follows the Kuenzle Theory (DIN 18550) being $S_D \times W < 0.1$, $S_D \leq 2$ and $W \leq 0.5$

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.

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