SILEXCOLOR TONACHINO

Silicate plaster for internal and external application
HIGHLY TRANSPIRANT
HIGH FILLING PROPERTIES

WHERE TO USE

Modified potassium silicate mineral plaster in paste form available in different grain sizes for interior and exterior finishings with a "rustic" effect.
The product protects renders while remaining permeable to water vapour and gives the substrate an attractive finish.

Some application examples

· Decorating render made from products from the **Mape-Antique** and **Poromap** lines.
· Decorating lime and cement-based render in general.
· Decorating dehumidifying render.
· Coating lime and silicate-based mineral finishes.

TECHNICAL CHARACTERISTICS

Silexcolor Tonachino is a one-component, fibroreinforced, modified potassium-silicate based coating, with selected fillers and pigments which are resistant to natural light, applied on internal and external vertical surfaces.
Once the silicatisation reaction has been completed, **Silexcolor Tonachino** forms a single body with the substrate and covers defects, without modifying its permeability.
Silexcolor Tonachino contains synthetic fibres for good crack resistance.
Silexcolor Tonachino has excellent resistance to ageing, freezing weather conditions and de-icing salts, and it is very difficult for dirt to remain attached to the surface.
Silexcolor Tonachino is also available in a wide range of colours obtained using the **ColorMap**® automatic colouring system.
Silexcolor Tonachino must always be applied on substrates treated beforehand with **Silexcolor Primer** or **Silexcolor Base Coat**.
If there is a high saline concentration and/or rising damp, only use **Silexcolor Primer**.
Silexcolor 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 **Silexcolor Tonachino** on damp substrates or on substrates which are not fully cured.
· Do not apply **Silexcolor Tonachino** over old varnish or paint.
· Do not apply **Silexcolor Tonachino** on facades exposed to direct sunlight: drape scaffolding with sheets to provide shade.
· Do not apply **Silexcolor Tonachino** if the temperature is lower than +8°C or higher than +35°C.
· Do not apply **Silexcolor Tonachino** if the level of humidity is higher than 85%.
· Do not apply **Silexcolor Tonachino** if it is about to rain, in windy weather or if there is direct sunlight.
· Apply **Silexcolor Tonachino** on the whole of a façade on the same day.
· When applying the product protect features and fittings so that paint does not go onto them (door and window frames, windows, tiles, etc.).

· Please refer to the “Safety instructions for preparation and application” section.

APPLICATION PROCEDURE

Preparing the substrate

New surfaces requiring treatment or areas patched up with repair mortar must be well-cured, perfectly clean, coherent and dry.
Remove all traces of oil and grease from the surface and any areas which are not well adhered.
Seal all cracks and repair deteriorated areas. Seal porosity and even out the surface of the substrate with mortar and smoothing compounds from the MAPEI Building products range.
Apply **Silexcolor Primer** or **Silexcolor Base Coat** on dry, well-cured substrates only. Wait until completely dry (12-24 hours) and proceed with application of **Silexcolor Tonachino**. To make application of the versions with particle size 1.2 mm, 1.5 mm and 2 mm easier and to help them cover better, use the same shade of **Silexcolor Base Coat**.

Preparing the product

Silexcolor Tonachino is ready-to-use. If it is slightly thick, add 3-5% of **Silexcolor Primer** and mix the product with a low speed drill fitted with a whip to avoid entrapped air. Mix until the paste is completely uniform.

Application of the product

Apply **Silexcolor Tonachino** with a stainless steel or plastic spreader over the dry **Silexcolor Primer** or **Silexcolor Base Coat**. The protection cycle consists of the application of one coat of **Silexcolor Tonachino**: spread an even coat of product on the surface, then go over the product with a plastic float to create an even finish or with a damp sponge float to create the effect required. Depending on the particle size of the product and the roughness of the substrate, two coats may be required to form a perfectly even aesthetic effect.

Applying Silexcolor Tonachino with a trowel

Smoothing Silexcolor Tonachino with a sponge float

CLEANING

Tools can be cleaned with water before the **Silexcolor Tonachino** dries.

CONSUMPTION DEPENDANT ON GRAIN SIZE

· **Silexcolor Tonachino** 0.7 mm: 1.7-2.0 kg/m² for a complete cycle;
· **SilexcolorTonachino** 1.2 mm: 1.9-2.3 kg/m² for a complete cycle;
· **Silexcolor Tonachino** 1.5 mm: 2.2-2.6 kg/m² for a complete cycle;
· **Silexcolor 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

Silexcolor Tonachino is available in 20 kg plastic drums.

STORAGE

12 months stored in a dry place away from sources of heat at a temperature of between +5°C and +30°C.
Protect from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silexcolor 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 the safe use of our product please refer to the latest version of our Safety Data Sheet.
PRODUCT FOR PROFESSIONAL USE.

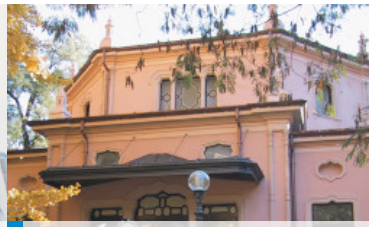
TECHNICAL DATA (typical values) **Complies with the following standard:** **– product certified according to EN 15824 (Specifications for external renders and internal plasters containing organic binders), conformity certification system 3 (also for applications subject to fire-reaction regulations).** **– type according to EN 15824: water-based product for internal and external use** **– DIN 18363**	
PRODUCT IDENTITY	
Consistency:	paste
Colour:	white, in colours from the 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. 1.65-1.95 (depending on particle size)
Dry solids content by weight (EN ISO 3251) (%):	approx. 80
Particle size:	0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm
APPLICATION DATA	
Dilution rate:	ready-mixed
Re-coat time:	12-24 hours, depending on level of humidity and surrounding temperature; the previous coat must always be fully dry
Application temperature:	+8°C to +35°C
Consumption (kg/m²):	1.7-3.5 (depending on particle size)
FINAL PERFORMANCE	
VOC content of ready-mixed product (white) (European Directive 2004/42/CE) (g/l):	≤ 15
VOC content of ready-mixed product (coloured) (European Directive 2004/42/CE) (g/l):	≤ 23

PERFORMANCE CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 15824
ORGANIC BINDER-BASED TEXTURED COATINGS IN WATER FOR INTERNAL AND EXTERNAL USE

Standard	Test	RESULTS AND COMPLIANCE				
		Particle size	**0.7 mm**	**1.2 mm**	**1.5 mm**	**2.0 mm**
EN ISO 7783	**water vapour permeability**	s_D (m)	0.01	0.01	0.03	0.03
		consumption according to S_D (kg/m²)	2.0	2.3	2.5	3.5

		result/class	**V1 (S_D < 0.14 m)**			
EN 1062-3	**water absorption**	w [kg/(m²·h$^{0.5}$)]	0.43	0.45	0.11	0.14
		result/class	**W2 (0.1 w ≤ 0.5 [kg/(m²·h$^{0.5}$)]**			
EN 1542	**adhesion**	adhesion (N/mm²)	1.50	1.00	1.02	0.85
		type of failure	A/B	A/B	A/B	A/B
		result/class	**compliant (≥ 0.3 MPa)**			
EN 13687-3	**durability**	number of cycles	20	20	20	20
		final adhesion (N/mm²)	1.62	1.57	1.65	1.40
		type of failure	A/B	A/B	A/B	A/B
		alterations	none	none	none	none
		result/class	**compliant (≥ 0.3 MPa)**			
EN 1745	**thermal conductivity**	**result/class**	**0.89 W/Mk** (chart value, P = 90%, for a dry density of 1800 kg/m³)		**1.21 W/mK** (chart value, P = 90%, for a dry density of 2000 kg/m³)	
EN 13501-1	**reaction to fire**	**result/class**	**A2-s1,d0**			
Since **S_D x W < 0.1** with **S_D ≤ 2** and **W ≤ 0.5, Silexcolor Tonachino** respects Kunzle's theory (**DIN 18550**) and complies with **DIN 18363**						

An example of an application of Silexcolor Tonachino - Rosa Residence Appartments - Gallipoli (Lecce) - Italy



An example of an application of Silexcolor Tonachino. Nursery School - Porta Venezia Gardens (Milan) - Italy

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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