



# MAPEI

# 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

- Decoration of **Mape-Antique**-based renders.
- Decoration of lime and cement based renders.
- Decoration of dehumidifying renders.

### TECHNICAL CHARACTERISTICS

**Silexcolor Tonachino** is a one-component, fibre-reinforced, 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.

Apart from the colours available from the “Colour choice” colour chart, **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



# Silexcolor Tonachino



Applying  
Silexcolor Tonachino  
with a trowel



Smoothing  
Silexcolor Tonachino  
with a sponge float



## 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 15824: water-based product for internal and external use
- DIN 18363

### PRODUCT IDENTITY

<b>Colour:</b>	white, from the MAPEI colour chart range or in various colours obtained using the <b>ColorMap®</b> automatic colouring system
<b>Appearance:</b>	paste
<b>Density (g/cm<sup>3</sup>):</b>	1.65-1.95 (depending on the grain size)
<b>Dry solids content (%):</b>	ca. 80
<b>Viscosity (mPa·s):</b>	60,000-80,000 (depending on the grain size)
<b>Grain size:</b>	0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm

### APPLICATION DATA

<b>Preparation:</b>	ready-to-use
<b>Application:</b>	stainless or plastic trowel
<b>Consumption:</b>	1.7-3.0 (depending on the grain size)
<b>Drying:</b>	in open air
<b>Dust drying:</b>	20-30 min. in air
<b>Ready for painting:</b>	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	<b>water vapour permeability</b>	s <sub>D</sub> (m)	0.01	0.01	0.03	0.02	
		consumption related to S <sub>D</sub> (kg/m <sup>2</sup> )	2.0	2.3	2.5	2.7	
		<b>result/class</b>	<b>V1 (S<sub>D</sub> &lt; 0.14 m)</b>				
EN 1062-3	<b>water absorption</b>	w [kg/(m <sup>2</sup> ·h <sup>0.5</sup> )]	0.43	0.45	0.11	0.14	
		<b>result/class</b>	<b>W2 (0.1 w ≤ 0.5 [kg/(m<sup>2</sup>·h<sup>0.5</sup>)])</b>				
EN 1542	<b>adhesion</b>	adhesion (N/mm <sup>2</sup> )	1.50	1.00	1.02	0.85	
		type of breaking	A/B	A/B	A/B	A/B	
		<b>result/class</b>	<b>complying (≥ 0.3 MPa)</b>				
EN 13687-3	<b>durability</b>	number of cycles	20	20	20	20	
		final adhesion (N/mm <sup>2</sup> )	1.62	1.57	1.65	1.40	
		type of breaking	A/B	A/B	A/B	A/B	
		alterations	no	no	no	no	
		<b>result/class</b>	<b>complying (≥ 0.3 MPa)</b>				
EN 1745	<b>thermal conductivity</b>	<b>result/class</b>	<b>0.93 W/mK</b> (tab value, P = 90%, related to the reference dry density of 1800 kg/m <sup>3</sup> )		<b>1.28 W/mK</b> (tab value, P = 90%, related to the reference dry density of 2000 kg/m <sup>3</sup> )		
EN 13501-1	<b>reaction to fire</b>	<b>result/class</b>	<b>A2-s1,d0</b>				

The S<sub>D</sub> x W value is lower than 0.1 therefore **Silexcolor Tonachino** follows the Kuenzle theory (DIN 18550)

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 wet or insufficiently cured substrates.
- Do not apply **Silexcolor Tonachino** on substrates treated with old paints.
- Do not apply **Silexcolor Tonachino** on substrates exposed to direct sunlight or strong wind.
- Do not apply **Silexcolor Tonachino** at temperatures below +8°C and above +35°C.
- Do not apply **Silexcolor Tonachino** when the humidity is higher than 85%.
- Do not apply **Silexcolor Tonachino** if it is about to rain, on facades exposed to direct sunlight (shade the facade by draping sheets on scaffolding) and in strong winds.
- Do not apply **Silexcolor Tonachino** on the same facade at different time intervals.
- See "Safety instructions for the preparation and application" paragraph.
- Cover adjacent areas that are not to be coated (windows, doors, tiles, etc.).
- Do not use uncoated metal or glass containers when transferring the product from one container to another.

### 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** and wait 12 to 24 hours before applying **Silexcolor Tonachino**.

To make it easier to apply 1.2 mm, 1.5 mm and 2.0 mm grain size **Silexcolor Tonachino** and to improve its covering properties, **Silexcolor Primer** may be applied after diluting it with 30-50% of **Silexcolor Paint** of the same colour as the **Silancolor Tonachino** or with a similar coloured coat 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.

#### Applying the product

Apply an even layer of **Silexcolor Tonachino** with a stainless steel or plastic trowel

over a dry coat of **Silexcolor Primer** or **Silexcolor Base Coat**.

The protection cycle also includes the application of a coat of **Silexcolor Tonachino**. According to the grain size of **Silexcolor Tonachino** and the roughness of the substrate, two coats may be applied to form a perfectly even finish. Apply an initial layer of smoothing compound, followed by a second layer after 24 hours. Make sure that both layers are spread on evenly, and then finished off with either a plastic float to create an even finish, or a damp sponge float dependant to the finish required.

A number of effects may be obtained using **Silexcolor Tonachino** (such as mottled finish, brushed finish, bass-relief finish, etc.) as illustrated in the "MAPEI colours in design" pamphlet.

#### 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/m<sup>2</sup> for a complete cycle;
- **Silexcolor Tonachino** 1.2 mm:  
1.9-2.3 kg/m<sup>2</sup> for a complete cycle;
- **Silexcolor Tonachino** 1.5 mm:  
2.2-2.6 kg/m<sup>2</sup> for a complete cycle;
- **Silexcolor Tonachino** 2.0 mm:  
2.6-3.0 kg/m<sup>2</sup> 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



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



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

# Silexcolor Tonachino



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 and 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.

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](http://www.mapei.com)**

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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