



Silancolor AC Tonachino Plus

Acryl-siloxane plaster
for the hygiene of walls
in internal and external
applications



WATER REPELLENT

MOULD AND ALGAE RESISTANT

WHERE TO USE

For coating new, old or already painted surfaces, even when particularly exposed to the degrading action of algae, moulds or fungi.

Silancolor AC Tonachino Plus has high filling properties and its water repellent finish ensures a long-lasting protection against environmental aggressions giving the surface a pleasant aesthetic finish.

Some application examples

- Protective coating of façades degraded by mould and algae, including façades with old paintwork (check suitability beforehand).
- Protective coating of north-facing façades or subject to the aggression of mould and algae.
- Decorating and protecting all types of cementitious or lime based renders.
- Decorating and protecting exterior thermal insulation systems like **Mapetherm System**.

TECHNICAL CHARACTERISTICS

Silancolor AC Tonachino Plus has been formulated specifically for the protection against algae, mould and fungi, and it is therefore indicated for coating walls which are already contaminated by microbial growth, after removal and cleaning of the surfaces; it can also be used as precautionary measure to decorate and protect buildings located in very humid environments conducive to mould and algae spread.

Silancolor AC Tonachino Plus, when used in a cycle with **Silancolor Primer Plus** or **Silancolor Base Coat Plus** and, where necessary, with **Silancolor Cleaner**



Plus, forms a complete efficient protective system, which is able to grant a durable protection against mould and algae growth. **Silancolor AC Tonachino Plus** is a fibre-reinforced coating, based on acryl-siloxane resins which combines the advantages of mineral based coatings with synthetic based coatings, giving the substrate good water repellent properties and protection against UV rays.

Silancolor AC Tonachino Plus contains synthetic fibres for a good resistance to micro-cracks.

Silancolor AC Tonachino Plus is resistant to all types of climatic conditions, pollution, saltiness and sunlight aggressions.

Silancolor AC Tonachino Plus contains a specific additive for the control of mould and algae growth.

Silancolor AC Tonachino Plus bonds perfectly to all types of renders and to old, well adherent paints.

Silancolor AC Tonachino Plus gives the surface a pleasant rustic finish, and it is available in a wide range of colours obtained with **ColorMap®** automatic tinting system.

RECOMMENDATIONS

- Do not apply **Silancolor AC Tonachino Plus** directly on surfaces which are infested by algae, mould or fungi, which must always be removed with **Silancolor Cleaner Plus**. Treat then the substrate with **Silancolor Primer Plus** or **Silancolor Base Coat Plus**, before applying **Silancolor AC Tonachino Plus**.
- Do not apply **Silancolor AC Tonachino Plus** on damp substrates or on substrates which are not well cured.
- Do not apply **Silancolor AC Tonachino Plus** when rain is imminent, with windy weather or under direct sunlight.
- Do not apply **Silancolor AC Tonachino Plus** if temperatures are below +5°C or higher than +35°C.
- Do not apply **Silancolor AC Tonachino Plus** when humidity is higher than 85%.
- Do not apply **Silancolor AC Tonachino Plus** on dehumidifying renders.
- 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.

Apply **Silancolor Primer Plus** or **Silancolor Base Coat Plus** on the dry, cured substrate and after 12-24 hours apply **Silancolor AC Tonachino Plus**.

Preparation of the product

Silancolor AC Tonachino Plus is supplied ready to use and just needs to be well mixed with a low-speed drill. If the product is too thick, it may be diluted with 1-2% of water.

Application of the product

Apply **Silancolor AC Tonachino Plus** with a stainless steel or plastic trowel on the dry layer of **Silancolor Primer Plus** or **Silancolor Base Coat Plus**. The product can also be applied by spray with suitable equipment. The protection cycle requires the application of one coat of **Silancolor AC Tonachino Plus**. Spread the product in a uniform layer levelling the product with a plastic trowel to create an even finish or using a damp sponge float to obtain the desired final effect. According to the Tonachino's grain size and the roughness of the substrate, the application can be carried out in two layers, to reach a perfectly homogeneous finish.

Cleaning

Tools used to apply **Silancolor AC Tonachino Plus** may be cleaned with water before the product dries.

CONSUMPTION

Consumption is heavily influenced by the roughness of the substrate and according to the application technique used. On homogeneous substrates consumption rate is generally approximately 1.9-2.3 kg/m².

PACKAGING

Silancolor AC Tonachino 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

Silancolor AC Tonachino Plus is dangerous for the aquatic life. Do not dispose of the product in the environment. During use wear protective gloves and goggles and take the usual precautions for handling of chemicals. If the product comes in contact with the eyes or the skin wash immediately with plenty of water and seek medical attention. If the product is applied in closed environments, make sure the area 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 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, 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. 1.70
Dry solids content by weight (EN ISO 3251) (%):	approx. 80
Grain size:	1.2 mm

APPLICATION DATA

Dilution rate:	ready-to-use
Waiting time between each coat:	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):	1.9-2.3

FINAL PERFORMANCE

VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l):	≤ 20
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):	≤ 30
Change in colour after 1,000 hours exposure of various colours to a Weather-Ometer (average ΔE) (ASTM G 155 cycle 1):	< 1.5

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

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	1.2 mm
EN ISO 7783	water vapour permeability	S _D (m)	0.11
		consumption related to S _D (kg/m²)	2.3
		result/class	V1 (S _D < 0.14 m)
EN 1062-3	water absorption	w [kg/(m²·h ^{0.5})]	0.05
		result/class	W3 (w ≤ 0.1 kg/(m²·h ^{0.5}))
EN 1542	adhesion	adhesion (N/mm²)	2.63
		type of breaking	A/B
		result/class	complying (≥ 0.3 MPa)
EN 13687-3	durability	number of cycles	20
		final adhesion (N/mm²)	2.62
		type of breaking	A
		alterations	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/m³)
EN 13501-1	reaction to fire	result/class	A2-s1, d0

Silancolor AC Tonachino Plus follows the Kuenzle's theory (DIN 18850) being S_D x W < 0.1, S_D ≤ 2 and W ≤ 0.5

Silancolor
Tonachino Plus **AC**



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.

All relevant references for the product are available upon request and from www.mapei.com



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