QUARZOLITE TONACHINO PLUS

Acrylic plaster for the hygiene of walls, in internal and external applications





WHERE TO USE

Acrylic resin-based coating product in paste form with good filling capacity for a rustic finish on internal and external walls, available in various grain sizes, recommended for finishing off walls where particular environmental conditions favour the growth of algae, mould and fungi.

Some application examples

- Decorating façades deteriorated by mildew and mould, including façades with old paintwork (check suitability beforehand).
- Decorating north-facing façades.
- Decorating all types of cementitious and lime-based render.
- Decorating concrete walls.
- Finishing coatings for cladding systems such as **Mapetherm**.

TECHNICAL CHARACTERISTICS

Quarzolite Tonachino Plus is particularly resistant to the growth of algae, mould and fungi. It may be used for decorating buildings located in areas where the particularly damp climate favours the growth of such microorganisms. A typical example is the painting of north-facing façades which are particularly sensitive to the growth of mould or algae due to the walls of the building being colder and damper.

Apart from the actions described above, **Quarzolite Tonachino Plus** is a coating material available in various grain sizes which is resistant in all climates and to the aggressive action of smog, salt-water and direct sunlight.

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

When **Quarzolite Tonachino Plus** is used in combination with **Silancolor Primer Plus** or **Silancolor Base Coat Plus** and, where necessary, with **Silancolor Cleaner Plus**, it forms a complete, efficient, decorative protective system and forms a long-lasting means of defence for the façade.

Quarzolite Tonachino Plus contains synthetic fibres for good crack resistance.

Quarzolite Tonachino Plus bonds perfectly to all types of conventional renders and to old, well-bonded paintwork.

Quarzolite Tonachino Plus also gives the substrate an attractive rustic finish. It is available in a wide range of colours obtained using the **ColorMap**® automatic colouring system.

Quarzolite Tonachino Plus 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 **Quarzolite Tonachino Plus** directly on surfaces where mildew, mould or fungi are present. Such micro-organisms must be removed beforehand with **Silancolor Cleaner Plus** followed by treatment with **Silancolor Primer Plus** or **Silancolor Base Coat Plus**.
- Do not apply **Quarzolite Tonachino Plus** on damp substrates, or on substrates which are not well cured.
- Do not apply **Quarzolite Tonachino Plus** on de-humidifying render.
- Do not apply **Quarzolite Tonachino Plus** if the temperature is lower than +5°C or higher than +35°C.
- Do not apply **Quarzolite Tonachino Plus** if the level of humidity is higher than 85%.
- Do not apply **Quarzolite Tonachino Plus** if it is about to rain, in windy weather or if there is direct sunlight.
- Refer to the "Safety instructions for preparation and application" section for application guidelines.

APPLICATION PROCEDURE

Preparation of the substrate

New surfaces requiring treatment or areas patched up with repair mortar must be well-cured, perfectly clean, cohesive and dry.

Remove all traces of oil and grease from the surface and any parts which are not well attached.

Remove all traces of mildew, mould and fungi, if present. They must be removed while the surface is still damp after a thorough cleaning with **Silancolor Cleaner Plus**.

Apply **Silancolor Cleaner Plus** over the entire surface of the substrate with a low-pressure manual sprayer or by brush, making sure it penetrates deep down into the substrate.

After applying the product, leave it to react for a few minutes and then remove the mildew, mould and fungi with a brush.

Apply **Silancolor Cleaner Plus** several times to help it penetrate into the substrate.

Seal all cracks and repair areas which are deteriorated.

Seal porosity and even out the surface of the substrate with a mortar and skimming compound from the MAPEI Building Products range.

Apply the most suitable treatment on the dry and completely cured substrate, according to specific requirements. Use **Silancolor Primer Plus** or **Silancolor Base Coat Plus** for a reinforced protection from algae and fungi; in other cases, use **Silancolor Primer** or **Silancolor Base Coat**.

Preparation of the product

Quarzolite Tonachino Plus 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 **Quarzolite Tonachino Plus** with a stainless steel or plastic trowel over the dry primer.

The product can also be applied by spray with suitable equipment. The protection cycle requires the application of one coat of **Quarzolite Tonachino Plus**. 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.

Quarzolite Tonachino Plus 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

Tools used to apply **Quarzolite Tonachino Plus** may be cleaned with water before it dries.

CONSUMPTION ACCORDING TO GRAIN SIZE

- **Quarzolite Tonachino Plus** 1.2 mm: 1.9-2.3 kg/m² for a complete cycle;
- **Quarzolite Tonachino Plus** 1.5 mm: 2.2-2.6 kg/m² for a complete cycle.

For all versions, consumption is indicative and heavily influenced by the roughness of the substrate and the type of application.

PACKAGING

Quarzolite Tonachino Plus is available in 25 kg plastic drums.

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

Avoid release to the environment. Collect spillage. Do not dispose of rinsing water into the environment. Dispose waste in accordance with the local rules.

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 standards:
– 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, from the MAPEI colour chart range or in various colours obtained using the **ColorMap**® automatic colouring system

Density (EN ISO 2811-1):	1.55-1.85 g/cm³ (according to grain size)
Dry solids content by weight (EN ISO 3251):	approx. 85%
Grain sizes:	1.2 mm; 1.5 mm

APPLICATION DATA

Dilution rate:	ready-to-use
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
Consumption:	1.9-2.6 kg/m² (according to grain size)

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

RESISTANCE TO BIOLOGICAL ATTACK (P.R.A. 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**	**1.5 mm**
EN ISO 7783	**water vapour permeability**	s_D	0.18 m	0.18 m
		consumption related to S_D	2.3 kg/m²	2.5 kg/m²
		result/class	**V2 (0.14 ≤ S_D < 1.4 m)**	
EN 1062-3	**water absorption**	w	0.09 kg/(m²·$h^{0.5}$)	0.09 kg/(m²·$h^{0.5}$)
		result/class	**W3 (w ≤ 0.1 [kg/(m²·$h^{0.5}$)]**	
EN 1542	**adhesion**	adhesion	0.97 N/mm²	1.35 N/mm²

		type of breaking	A/B	A/B
		result/class	**complying (≥ 0.3 MPa)**	
EN 13687-3	**durability**	number of cycles	20	20
		final adhesion	2.00 N/mm²	2.04 N/mm²
		type of breaking	A/B	A/B
		alterations	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/m³)	**1.21 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**	



Detailed view of the inside of a home decorated with Quarzolite Tonachino Plus



A home decorated with Quarzolite Tonachino Plus

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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2093-5-2026-EN

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