MAPEI

Quarzolite Tonachino Plus

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

LONG-LASTING

MOULD AND MILDEW RESISTANT

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 mildew, 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 mildew, 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 mildew 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 an anti-mould and anti-mildew agent.

Quarzolite Tonachino Plus

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

A home decorated with Quarzolite Tonachino Plus

When **Quarzolite Tonachino Plus** is used in combination with **Silancolor Primer 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 the various colours from the "Colour Choice" colour chart and in a wide range of colours obtained using the **ColorMap**® automatic colouring system.
Quarzolite Tonachino Plus is also suitable for application on internal plaster and on old paintwork, if well-bonded and not crumbly, after applying a coat of **Silancolor Primer Plus**.
In the case of old, well-bonded painted surfaces, and according to absorbency, assess whether **Silancolor Primer Plus** is really required.

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**.
- Use **Silancolor Primer Plus** before applying **Quarzolite Tonachino 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 **Silancolor Primer Plus** and leave it to dry for approximately 12-24 hours, or until the wall is completely dry, before applying **Quarzolite Tonachino Plus**.
Old paintwork must be well-bonded to the substrate and cleaned. If the paintwork is particularly old and/or porous, treat the surface with **Silancolor Primer Plus**.

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 plastic trowel on the dried **Silancolor Primer Plus**. It can be also applied by spray with suitable tools.
The protection cycle is formed by applying a layer of **Quarzolite Tonachino Plus** distributed evenly on the surface and then working the material with a plastic trowel to even out the effect, or with a damp sponge trowel according to the finish required.
A number of effects may be obtained using **Quarzolite Tonachino Plus** (such as mottled, brushed, bass-relief, etc.) as illustrated in the "MAPEI Colours in Design" pamphlet.

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/m^2 for a complete job;
– **Quarzolite Tonachino Plus** 1.5 mm: 2.2-2.6 kg/m^2 for a complete job.

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 20 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

Quarzolite Tonachino Plus is not

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), conformity certification 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 (g/cm³):	1.55-1.85 (according to grain size)
Dry solids content (%):	approx. 85
Viscosity (mPa·s):	60,000-80,000 (according to grain size)
Grain sizes:	1.2 mm; 1.5 mm
APPLICATION DATA	
Dilution rate:	supplied ready to use (dilute with 1-2% H_2O if required)
Waiting time between each coat:	at least 24 hours under normal humidity and temperature conditions, and in all cases, when the previous layer is completely dry
Application temperature range:	from +5°C to +35°C
Consumption (kg/m²):	1.9-2.6 (according to grain size)
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):	≤ 28

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 (m)	0.18	0.18
		consumption related to S_D (kg/m²)	2.3	2.5
		result/class	**V2 ($0.14 \le S_D < 1.4$ m)**	
EN 1062-3	**water absorption**	w [kg/(m²·h$^{0.5}$)]	0.09	0.09
		result/class	**W3 (w ≤ 0.1 [kg/(m²·h$^{0.5}$)]**	
EN 1542	**adhesion**	adhesion (N/mm²)	0.97	1.35
		type of breaking	A/B	A/B
		result/class	**complying (≥ 0.3 MPa)**	
EN 13687-3	**durability**	number of cycles	20	20
		final adhesion (N/mm²)	2.00	2.04
		type of breaking	A/B	A/B
		alterations	no	no
		result/class	**complying (≥ 0.3 MPa)**	
EN 1745	**thermal conductivity**	**result/class**	**0.93 W/mK** (tab value, P = 90%, related to the reference dry density of 1800 kg/m³)	**1.28 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**	

Quarzolite Tonachino Plus

considered as dangerous according to the current regulation regarding the classification of mixtures. We recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. We recommend working in well ventilated areas when applying the product. For further and complete information about the safe use of our product please refer to the latest version of our 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

Our Commitment To The Environment
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

GREEN INNOVATION

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

2093-4-2014-II (GB)

MAPEI®
BUILDING THE FUTURE