



Silancolor Graffiato

Siloxane plaster with
scratch-effect for internal
and external application

**WATER-REPELLENT AND
TRANSPIRANT**

WITH HIGH FILLING PROPERTIES

WHERE TO USE

Silicone resin-based plaster available in various grain sizes with a scratch-effect finish for external surfaces. Suitable for decorating walls where an attractive finish, excellent water resistance and good vapour permeability are required for the substrate.

Some application examples

- Decorating all types of cementitious or lime-based renders.
- Decorating **Mape-Antique** and **PoroMap** renders.
- Decorating de-humidifying renders.
- Covering old painted surfaces (apply a test coat beforehand).

TECHNICAL CHARACTERISTICS

Silancolor Graffiato is a fibroreinforced silicone resin-based decorative plaster available in various grain sizes, which combines the advantages of mineral based materials (high vapour permeability, such as with **Silexcolor Tonachino**) with those of synthetic coating materials (even colour, good bond to old paintwork which is in good condition, and availability in a wide range of colours). Thanks to its special formulation, substrates maintain good permeability to water vapour and are still highly water-repellent. Unlike conventional synthetic coatings, it forms a porous layer rather than an impermeable skin, while the silicone resins contained



in the product form an excellent barrier against water penetration water, so that render always remains dry.

Silancolor Graffiato contains synthetic fibres for good crack resistance.

Silancolor Graffiato bonds perfectly to all types of traditional and de-humidifying renders and to old, well-bonded paintwork. The product's water-repellent properties protect the substrate against chemical attack, and it is very difficult for dirt to remain attached. It is also highly resistant to UV rays and ageing, characteristics of the product which remain stable many years.

Apart from its protective characteristics, **Silancolor Graffiato** gives the substrate an attractive scratch-effect finish. It is available in colours from the "Colour Choice" colour chart and a wide range of colours obtained using the **ColorMap®** automatic colouring system.

Before applying **Silancolor Graffiato**, always apply a normalising coat of **Silancolor Primer** or **Silancolor Base Coat**. In the case of old, well-bonded painted surfaces, assess whether **Silancolor Primer** or **Silancolor Base Coat** is really required, dependant on its absorbency.

Silancolor Graffiato 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 **Silancolor Graffiato** on damp or partially-cured substrates.
- Do not apply **Silancolor Graffiato** if the temperature is less than +5°C or more than +35°C.
- Do not apply **Silancolor Graffiato** if the humidity is higher than 85%.
- Do not apply **Silancolor Graffiato** if rain is forecast, in windy weather or in direct sunlight.
- Please refer to the "Safety instructions for preparation and application" section.

APPLICATION PROCEDURE

Preparation of the substrate

New surfaces or surfaces patched up with repair mortar must be cured, perfectly clean, sound and dry.

Completely remove all traces of oil or grease from the surface and loose parts.

Seal any cracks which are present and repair any deteriorated areas.

Seal all porosity and even out imperfections

in the substrate with a smoothing mortar from the MAPEI Building Products range. Apply **Silancolor Primer** or **Silancolor Base Coat** and leave to dry for 12-24 hours before applying **Silancolor Graffiato**. To make it easier to apply **Silancolor Graffiato** and improve its covering properties, the coat of **Silancolor Primer** may be diluted 30-50% with the same colour of **Silancolor Paint** as used for the **Silancolor Graffiato** coat (or a coat of **Silancolor Base Coat** in the same colour).

Old paintwork must be well bonded to the substrate and clean. If it is aged and/or porous, treat with **Silancolor Primer** or **Silancolor Base Coat**.

If old paintwork is well attached and only lightly porous, **Silancolor Graffiato** may be applied directly.

Preparation of the product

Silancolor Graffiato is ready to use and only requires stirring with a low-speed drill. If the product is too viscous, add 1-2% of water.

Application of the product

Apply **Silancolor Graffiato** using a stainless or plastic trowel to **Silancolor Primer** or **Silancolor Base Coat** once dry. The protection cycle includes the application of a coat of **Silancolor Graffiato**. According to the grain size of the **Silancolor Graffiato** and the roughness of the substrate, two coats may be applied to obtain a perfectly even finish. A smoothing coat may be applied followed by a second coat after 24 hours. Both coats must be applied evenly, and must then be smoothed over with a plastic float to even out the surface and to get the final pattern required.

Cleaning

Silancolor Graffiato should be cleaned, from trowels and other tools with water before it dries.

CONSUMPTION ACCORDING TO GRAIN SIZE

- **Silancolor Graffiato** 1.2 mm: 1.9-2.3 kg/m² at work completed;
- **Silancolor Graffiato** 1.8 mm: 2.4-2.8 kg/m² at work completed.

For all versions, consumption is greatly influenced by the roughness of the substrate.

PACKAGING

Silancolor Graffiato is supplied in 20 kg plastic drums.

STORAGE

24 months if stored in a dry place away from sources of heat and at a temperature

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 EN 15824: water-based product for internal and external use

PRODUCT IDENTITY

Colour:	white, colour range or colours that can be obtained with the ColorMap® colour system
Aspect:	paste
Density (g/cm³):	1.7-1.8 (according to the grain size)
Dry solids content (%):	approx. 80
Viscosity (mPa·s):	55,000-75,000 (according to the grain size)
Grain size:	1.2 mm; 1.8 mm

APPLICATION DATA

Preparation:	ready-to-use
Application:	stainless or plastic trowel
Consumption (kg/m³):	1.9-2.8 (according to the grain size)
Drying:	in open air
Painting:	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	1.2 mm	1.8 mm
EN ISO 7783-2	water vapour permeability	S _D (m)	0.11	0.11
		consumption related to S _D (kg/m ²)	2.3	2.6
		result/class	V1 (S_D < 1.4 m)	
EN 1062-3	water absorption	w [kg/(m ² ·h ^{0.5})]	0.04	0.04
		result/class	W3 (w ≤ 0.1 [kg/(m²·h^{0.5})]	
EN 1542	adhesion	adhesion (N/mm ²)	1.44	0.99
		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/mm ²)	2.16	1.96
		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/m ³)	
EN 13501-1	reaction to fire	result/class	A2-s1,d0	

Silancolor Graffiato is according to Kuenzle Theory (DIN 18550) because the value of S_D x W is less than 0.1

Silancolor
Graffiato

between +5°C and +30°C.
Protect from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silancolor Graffiato is not considered as hazardous according to current standards and regulations regarding the classification of mixtures. However, the use of protective gloves and goggles and the application of the usual precautions taken when handling chemical products are recommended. 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

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



BUILDING THE FUTURE