



MAPEI

Silexcolor Paint

**Silicate paint for internal
and external application**



TRANSPIRANT

CHEMICAL BONDING

WHERE TO USE

Painting of porous vertical interior or exterior surfaces where protection against atmospheric agents is required (rain, frost) along with high vapour permeability.

Some application examples

- Painting of Mape-Antique renders.
- Painting of cement- or lime-based renders.
- Painting of dehumidifying renders.

TECHNICAL CHARACTERISTICS

Silexcolor Paint is a modified potassium-silicate-based paint with selected fillers and pigments resistant to natural light for internal and external vertical surfaces. After the silicatisation reaction, **Silexcolor Paint** forms a single body with the substrate and fixes the elements which make up the paint with no risk of peeling. Once it has completely dried, **Silexcolor Paint** forms a dressing coat without forming a surface skin and which is permeable to vapour.

Silexcolor Paint has excellent resistance to ageing, freezing weather conditions and de-icing salts and surfaces treated with this product have a very low capacity of attracting dirt.

Surfaces to be painted with **Silexcolor Paint** must first be treated with **Silexcolor Primer**.

If colours with a poor covering capacity are used, use **Silexcolor Base Coat** instead of **Silexcolor Primer**.



TECHNICAL DATA (typical values)	
Conformity with:	– DIN 18363
PRODUCT IDENTITY	
Consistency:	dense liquid
Colour:	white, available in a wide range of colour tones that can be obtained with the ColorMap® automatic colouring system
Density (g/cm ³):	ca. 1.46
Brookfield viscosity (mPa·s):	14,000 (rotor 6 - rpm 10)
Dry solids content (%):	ca. 55
Storage:	12 months in original sealed packaging
Hazard classification according to EC 1999/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3209 10 00
APPLICATION DATA	
Dilution ratio:	Silexcolor Primer 20%
Dust dry:	20 to 30 minutes
Drying time between coats:	12 hours
Drying time:	24 hours
Application temperature range:	+8°C to +35°C
Coverage (kg/m ²):	0.35 to 0.45 for two coats
FINAL PERFORMANCE DATA	
Resistance to chemical aggression:	excellent
Colour variation after 200 hours WOM exposure:	$\Delta E < 1$
Resistance to water vapour diffusion factor (μ) (DIN 52615):	214
Resistance of water vapour diffusion of 100 μ m thick layer as meter thick layer of air (Sd) (DIN 52615) (m):	0.02
Determination of water absorption coefficient through capillaries (W) (DIN 52617) in kg/(m ² ·h ^{0.5}):	0.120
Sd x W = 0.02 x 0.120:	0.002 kg/(m ² ·h ^{0.5}) The S d x W value is lower than 0.1 therefore Silexcolor Tonachino follows the Kuenzle theory (DIN 18550)

Silexcolor Primer and **Silexcolor Paint** form a complete modified silicate-based paint system for interior and exterior vertical surfaces.

Silexcolor Paint is available in a wide range of colours which can be obtained through the **ColorMap®**, automatic colour system.

RECOMMENDATIONS

- Do not use **Silexcolor Paint** to cover small cracks in the substrate.
- Do not apply **Silexcolor Paint** on damp or insufficiently cured substrates.
- Do not apply **Silexcolor Paint** on non-absorbent substrates.
- Do not apply **Silexcolor Paint** on painted substrates.
- Do not use **Silexcolor Paint** to paint horizontal surfaces or surfaces subject to foot traffic.
- Do not use **Silexcolor Paint** to paint surfaces that are to be permanently immersed in water.
- Do not apply **Silexcolor Paint** when rain is likely or when humidity is higher than 85%.
- Do not apply **Silexcolor Paint** on substrates exposed to direct sunlight or strong winds.
- Do not apply the **Silexcolor Paint** at temperatures below +8°C or above +35°C.
- Do not apply **Silexcolor Paint** on the same façade in different times.
- Do not dilute **Silexcolor Primer** with solvents or water.
- **Silexcolor Primer** must always be applied to the substrate before painting with **Silexcolor Paint**.
- While applying protect eyes with protective goggles and hands with suitable gloves.
- While applying cover nearby 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.

HOW TO USE

Preparing the substrate

Substrates must be sufficiently cured and dry. The surface to be treated must be thoroughly clean and sound. Completely remove all dirt, dust, grease, oil, and saline

efflorescence by sanding, sandblasting or with a high-pressure water cleaner.

While applying cover nearby areas that are not to be coated (windows, doors, tiles, etc.).

Very important: *substrates must be totally free from old paint residues. Wait until the surface is completely dry. Cover adjacent areas that are not to be coated (windows, doors, tiles, etc.).*

Preparing the product

Dilute **Silexcolor Paint** with 20% **Silexcolor Primer** and mix with a drill at low speed until completely homogenised. To prepare partial quantities **Silexcolor Paint** should be first mixed as described above rather than removing a partial amount from the original container.

Applying the product

Silexcolor Paint can be applied by conventional techniques: brush, roller or spray over dry **Silexcolor Primer**.

At least two coats are necessary for thorough coverage, one applied 24 hours after the other at normal temperatures and humidity.

Cleaning

Brushes and rollers can be cleaned with water before the product dries.

COVERAGE

0.35-0.45 kg/m² for two coats.

PACKAGING

20 kg buckets.

STORAGE

Silexcolor Paint can be stored for 12 months, in a dry place at a temperature between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Silexcolor Paint is not considered as dangerous according to European regulations concerning the classification of mixtures. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products. If the product is applied in closed environments, make sure the area 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

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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 web site www.mapei.com

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

