

NanoSil Primer

Transparent fixative primer for professional use based on potassium silicate stabilized, for outdoor use. complying with DIN 18363, has excellent qualities of permeability to steam and of adhesion to the substrate. Specific in the cycles of the external decoration with photo catalytic properties.

Transparent fixative primer for professional use based on potassium silicate stabilized, for outdoor use. Complying with the standard **DIN 18363**. It is specific as fixative before each decoration cycle with coatings or micro coatings with photo catalytic power. Its formulation is specially designed to maximize the self-cleaning effect of the next decorative layer. **NanoSil Primer** combines excellent adhesion characteristics (creating a layer of optimal bonding between the substrate and the photo catalytic paint), and makes the absorptions uniform both on new substrates, and on existing ones, optimising the yield of **NanoSil Paint**. It does not affect the permeability to water vapour making the entire decorative cycle breathable, self-cleaning, mineral.



MAIN FIELDS OF USE

NanoSil Primer is indicated for the decoration of indoor/outdoor, new or existing bases, on residential, industrial or commercial buildings. It is advisable to use the product on cured bases, i.e. after a curing time of at least four weeks. It can be applied on bases such as:

- Cement base civil finishing
- Façades already painted, after careful inspection and cleaning of the base
- Tunnels, underpasses
- Cement
- Concrete

For applications on different substrates, please contact our technical department.

CHARACTERISTICS

- Photo catalytic and self-cleaning: the specific formulation of **NanoSil Primer** maximizes the effect of the photo catalytic decoration that, using nanometre particles, allow the oxidation of the polluting substances deposited on the façade.
- High adhesive power: thanks to its formulation based on stabilized potassium silicate, **NanoSil Primer** firmly adheres to mineral substrates through a chemical process called "Silication".
- Mineral product: primer formulated with potassium silicates in aqueous dispersion and solvents free, **NanoSil Primer** combines optimal application properties to a totally mineral matrix allowing greater comfort during the application phase and minimizing the risks to health.
- Breathable: formulated with mineral binders, **NanoSil Primer** creates a non-filming micro porous layer, therefore breathable.



APPLICATION METHOD

Preparation of substrate

Mechanically remove any flaking areas or parts which are starting to detach. For small areas, use suitable products for repair and to restore smoothness. Clean the surfaces to remove any traces of dust or detergents, oily substances, mineral greases, etc.

Preparation of the product

NanoSil Primer can be ready to use or diluted with a maximum of 5% of clean water.

IT IS advisable, however, to mix the primer for 2-3 minutes on a low speed with a mixer drill to obtain a smooth product.

Application

NanoSil Primer must be applied manually (brush or roller) in one coat taking care to cover 100% of the areas to be decorated.

Unfavourable climatic conditions (areas subjected to strong currents of air, high temperatures etc.) may alter the curing process of the primer, therefore it is necessary to constantly check that it does not dry out quickly altering the binding characteristics of the primer. **NanoSil Primer**, in ideal conditions, cures sufficiently for successive applications after 1-2 hours (at +20 °C and R.H. 70%).

Do not apply **NanoSil Primer** on substrates that have a film of water on the surface, are wet or exposed to extreme conditions, such as walls exposed to strong sunlight or frost.

Make sure that the ambient temperature and that of the substrate during application is between +5 °C and +35 °C.

PRODUCT INFORMATION

Appearance	Liquid - Colourless
Yield	0.00 – 0.200 m ² /L
Dilution	Ready to use/maximum 5% water
Drying time	1-2 hours at +20 °C to touch approx. 24 hours at +20 °C fully dry
Application temperature	between +5 °C and +35 °C and 70% R.H.
Storage	12 months if stored in the original, unopened container
Packaging	5 L polypropylene bucket
Binding agent	Potassium silicate
VOC (Directive 2004/42/EC) for primers (Cat A/c):	< 30g/L of VOC

WARNINGS

- IT IS not suitable for application on frozen or thawing substrates. Store the primer containers in places away from direct sunlight and with temperatures not below +5 °C for avoid compromising the quality of the material.
- If the surfaces are crumbling, flaking or the paintwork is old, clean the substrate thoroughly.
- In the event of difficult substrates, perform a suitability test beforehand.
- The effective temperature and degree of humidity may speed up or slow down the drying process.
- It is not possible to guarantee drying with colour differences (stains) due to:
 - the conditions of the substrate (such as structure, absorption aspect, etc.)
 - the use of natural raw materials.
- After using the product, wash the tools with water.

SAFETY

Please consult the safety data sheet for information about product disposal, storage and usage.

NOTES

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

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