

Idrosil Exterior

Outdoor micro-coating, based on potassium silicates in aqueous dispersion and siliceous aggregates, in compliance with DIN 18363; with excellent whiteness, it combines a very high degree of vapour permeability with excellent adhesion to the substrate. Mineral product, odourless and with very low VOC values, ideal for outdoor decoration on new substrates or for the aesthetic restoration of existing façades.



Idrosil Exterior is a micro-coating for exteriors, based on potassium silicates in aqueous dispersion and siliceous aggregates, in compliance with the **DIN 18363** standard regarding the purity of silicates. It combines a high adhesion power with a high water vapour permeability that make it ideal both for interventions on new substrates and for the aesthetic restoration of existing façades. The careful selection of raw materials gives **Idrosil Exterior** excellent adhesion properties as it reacts chemically with the mineral substrate through a natural process called silicatisation. Ideal on both new and existing substrates, it combines an excellent degree of whiteness with good water repellency. Thanks to its fineness, it can be applied by brush, roller or airless; it can be pigmented in the majority of colours shown in the **licatasystemcolors EXTERIOR** swatch.



MAIN FIELDS OF USE

Idrosil Exterior is suitable 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 onto bases such as:

- Lime base civil finishing
- Cement base civil finishing
- Gypsum (after application of a primer in case of smoothing with very low absorption)
- Surfaces already painted, after carefully checking and cleaning the base
- Concrete

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

CHARACTERISTICS

- Mineral: the composition based on inorganic binders make **Idrosil Exterior** a mineral and odourless paint; IT IS ideal for anyone seeking natural products for exterior mineral painting.
- Versatility: thanks to the granulometry fineness <100 microns. **Idrosil Exterior** can be applied both manually (brush/roller) and mechanically (airless).
- Very high breathability: the careful selection of raw materials, combined with the typical property of silicate, give the painting excellent values of vapour permeability.
- Excellent adhesion power: the composition based on pure silicates gives **Idrosil Exterior** excellent adhesion properties as it reacts chemically with the mineral substrate through a natural process called silicatisation.



APPLICATION METHOD

Preparation of the 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 any detergents, oily substances, mineral greases, etc. In the case of existing substrates with organic paints it is always necessary to apply **SilPrimer** or **Primer Ocrum** as a coupling bridge. In all cases, before proceeding with painting, it is advisable to apply:

- **SilPrimer** - on the above-listed new or existing, particularly absorbent substrates.
- **Ocrum primer** - in the case of overpainting on medium/strong colours

Preparation of the product

IT IS possible to dilute **Idrosil Exterior** with clean water in the following ways:

- Application with brush or roller: 25% 1st coat– 20% 2nd coat
- Airless application: 25%

After dilution, IT IS advisable to mix the paint for a few minutes using a mixer whisk to make the mixture smooth.

Application

Idrosil Exterior can be applied manually (brush/roller) or with an airless machine in two or more cross-over layers in order to achieve perfect coverage and the desired finish. For multiple applications, apply successive layers about 3 hours apart.

Particularly absorbent substrates or unfavourable climatic conditions (areas subjected to strong air currents, high temperatures, etc.) can lower the open paint time to just a few minutes, therefore, you must constantly check that a surface film does not form and if it dries out too quickly. **Idrosil Exterior**, in ideal conditions, cures sufficiently for successive applications after approximately 3 hours (+20°C and R.H. 70%) and full curing 24 hours after the last coat. Do not apply **Idrosil Exterior** on substrates that have a film of water on the surface, are wet or exposed to extreme conditions, such as walls exposed to direct 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 - White
Yield	0.250 – 0.350 kg/m ²
Dilution	20% - 25%
Drying time	3-4 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	20 kg polypropylene bucket
Binding agent	Potassium silicate
Specific gravity	1.60 kg/L
Dirt pick-up	Low
Brightness	Ultra-matt
VOC (Directive 2004/42/EC) for external wall coating (Cat A/c):	< 30g/L of VOC

WARNINGS

- Not suitable for frozen or thawing substrates.
- In the event of difficult substrates or ones differing from those listed, perform a suitability test beforehand and contact our technical department.
- Store the containers in places out of direct sunlight and at temperatures not below +5 °C to avoid compromising the quality of the material.
- Always check the material before applying it to make sure that the colour matches the one requested.
- Any claims about the colour shade will not be accepted after application.
- It is not possible to guarantee drying with colour differences (stains) due to:
 - the different atmospheric and physical conditions in which the building is located;
 - scaffolding;
 - the conditions of the substrate (such as structure, absorption aspect, etc.);
 - the use of natural raw materials.
- Protect from direct sunlight and heavy rainfall for the first 48-72 hours. The effective temperature and degree of humidity may speed up or slow down the drying process.
- Protect eyes and hands during application.
- 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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