

Idrosil E

WATER REPELLENT TECHNOLOGICAL PRIMER WITH HIGH PENETRATION DEGREE, COLOURLESS, ODOURLESS, BREATHABLE, WITH HIGH DRIP EFFECT, BASED ON SILICONE HYDROPHOBIC RESINS. GUARANTEED TO PROTECT AGAINST ATMOSPHERIC AGENTS OF THE MOST COMMON MINERAL SURFACES IN BUILDING, AS LONG AS ABSORBENT. PROTECTS AGAINST FREEZING-THAWING CYCLES, PREVENTS THE ROOTING AND PROLIFERATION OF MOULD AND MOSS ON ABSORBENT CEMENTITIOUS SURFACES, COUNTERS THE EFFECTS OF CARBONATION ON VISIBLE CONCRETE STRUCTURES.



TECHNICAL DATA SHEET - REV. 01/2022

DESCRIPTION

IDROSIL E is a colourless solvent-free impregnating agent made with siloxane resins in water emulsion with a low environmental impact, which reacts with the natural moisture present within the substrate by hydrophobising pores and capillaries, making the treated surface water-repellent. IDROSIL E is characterised by a good impregnating capacity in all porous materials used in construction and generates a rapid development of water repellence, even on moderately moist substrates. Since it is not a film-forming product, it does not change the water vapour permeability of the substrate.

FIELDS OF APPLICATION

IDROSIL E is used for invisible protective treatments against driving rain of exposed concrete structures, cement plaster, facing bricks, cellular concrete, unglazed ceramic elements, porous natural stone, asbestos cement, etc.

The application of IDROSIL E provides the following benefits:

- ◆ protection against carbonation of fair-faced concrete;
- ◆ high resistance to alkalis;
- ◆ protection against rainwater infiltration;
- ◆ protection against saltiness in marine areas;
- ◆ protection against acid rain and atmospheric agents in general;
- ◆ increased masonry resistance to freeze-thaw cycles;
- ◆ self-washing walls with less dirt accumulation;
- ◆ strong reduction in algae and moss proliferation;
- ◆ no aesthetic alteration of the treated substrate.

SUBSTRATE PREPARATION

The substrate to be impregnated must be clean, solid and free of grease, moss or weeds. Surfaces with salt efflorescence must be mechanically cleaned, dusted with brushes and compressed air. In the case of particularly dirty surfaces, washing with pressurised water may be necessary. Before applying IDROSIL E, wait until the surface is sufficiently dry. Micro-cracks wider than 0.3 mm must be adequately grouted. All fresh cement substrates must have cured for at least 28 days before being impregnated with the product.

APPLICATION

IDROSIL E is a ready-to-use product that must be shaken well before use. It can be applied by brush or spray evenly over the substrate, in at least two coats, fresh on fresh, until completely saturated, avoiding excessive product percolation. The duration of the water-repellent effect depends greatly on the depth of penetration of the impregnating agent. This parameter varies depending on the porosity of the material and the amount of product applied. On average, it is recommended to repeat the treatment at intervals of about 10 years.

YIELD

0.2 - 1.0 L/m² depending on the type of surface.

RECOMMENDATIONS

- ◆ PROTECT FROM FROST.
- ◆ Store at a temperature above +5°C.
- ◆ IDROSIL E is not suitable for hydrophobising gypsum surfaces.
- ◆ Surfaces treated with IDROSIL E may no longer be decorated with water-based products.
- ◆ All tools used for the application of IDROSIL E can be washed with water.

PACKAGING

IDROSIL E is supplied in 5 L and 25 L plastic canisters. Store the product in the sealed containers, protected from frost and direct sunlight. In these conditions its stability is of at least 12 months.

SAFETY INSTRUCTIONS

Use protective gloves and goggles to avoid contact with skin and eyes. Refer to the respective Safety Data Sheet for more information about how to use the product safely.

SPECIFICATIONS

Treatment of absorbent mineral surfaces and concrete works to protect them from atmospheric agents and to prevent mould and moss from taking root and proliferating by means of a water-repellent, highly penetrating, colourless, odourless, breathable technological primer with a marked droplet effect, based on water-repellent hydrophobising silicone resins, such as **IDROSIL E** by Colmef Srl, to be applied in a single coat until the substrate is saturated, avoiding excessive product percolation or stagnation.

TECHNICAL DATA

Appearance:	liquid
Colour:	whitish
Apparent specific weight (kg/l):	1.01
Solid residue (%):	8
Brookfield viscosity (cPs):	11
Surface drying time:	~ 2 h
Complete drying time:	~ 48 h
Allowed application temperature:	from +5 °C to +35 °C

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

COLMEF SRL | Z.I. Ponte d'Assi | 06024 - Gubbio (PG) ITALY | Tel. +39 075923561 | info@colmef.com | www.colmef.com