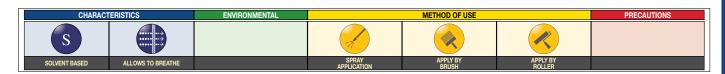
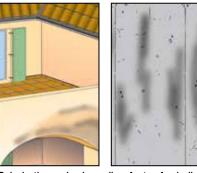


COLOURLESS WATER-REPELLENT PROTECTIVE AGENT WITH HIGH PENETRATION FOR ABSORBENT BUILDING MATERIALS



PROBLEM

TO PROTECT EXTERNAL WALLS AND ABSORBENT AND POROUS BUILDING MATERIALS



Rain is the main degrading factor for building materials used in external walls, and acts through physical/mechanical and chemical processes. Freeze/thaw cycles, caused by the conversion of water into ice and vice-versa, lead to chalking and spalling on absorbent materials. The production of sulphur trioxide and sulphur dioxide in heating systems and motor vehicles causes acid attack when it rains, leading to the formation of chalky layers that wash away easily.

SOLUTION

IDROCOAT is an impregnating agent that does not create a film, therefore it does not stop surfaces breathing. It is made up of a mixture of silane-siloxane oligomers dissolved in white spirit with high capacity to penetrate into the capillaries of the mineral substrate.

IDROCOAT reacts with the silicates making up the mineral substrate and with the moisture in the alkaline layer, forming a waterrepellent protection. **IDROCOAT** is perfectly transparent, colourless and does not create surface shine.

APPLICATION FIELDS

IDROCOAT is indicated for the protective treatment of all absorbent building materials such as: facing concrete, plaster, cement mortar, sandstone and limestone walls, brick walls, cellular concrete, natural and artificial mineral-based stone, external finishes with



mineral paints, and as an impregnating primer for anti-carbonation external paints such as INDECOLOR. It is ideal for use in the protection of concrete in road construction, bridges, viaducts, guard rails, structures that are subject to disintegrating freeze-thaw cycles and the aggressive action of salts. Impregnation with **IDROCOAT**, in general, is carried out to protect vertical or sloping surfaces from atmospheric precipitation.

ADVANTAGES

- Prevents transport of hygroscopic salts.
- Protects against corrosion by acid rain.
- Protection against bacteria and algae.
- Protects from freeze-thaw cycles.
- High penetration.
- Excellent resistance to alkalis.
- Does not form surface films, high permeability to water vapour.
- Excellent resistance to UV rays.

• PREPARING THE SURFACE TO BE TREATED

Surfaces to be treated which are dirty and covered with micro-organisms and efflorescent salts must first be cleaned with a water jet. Cleaning with hot water or steam is the best method. Before application, wait until the surface is visibly dry; the damp substrate promotes the reaction of the silane, hence there is no need to wait for long before applying the impregnating agent.

• APPLICATION

IDROCOAT is ready to use and is applied to building materials by spraying, by brush or by immersion. Application is normally carried out with a low pressure sprayer (about 0.2-0.4 Bar) in one or more stages, wet on wet, taking care to ensure that the material is saturated and treated evenly. **IDROCOAT** usually needs to

METHOD OF USE

be sprayed until it is no longer absorbed and drips for 50 cm. For small surfaces it can also be applied by roller or paintbrush as long as



the amount applied is enough to saturate the substrate. Wood, glass and plastic surfaces must be protected during application.

• FINISHES

For finishing, **IDROCOAT** can be painted over with normal paints based on synthetic binders. • **COVERAGE**

- Coverage of IDROCOAT applied on:
- Mineral plaster: 0.5-0.8 l/m²;
- Masonry: 0.4-1.0 l/m2;
- Natural stone: 0.1-1.5 l/m²;
- Porous concrete: 0.5-1.5 l/m²;

(See following)



Ι



TECHNICAL CHARACTERISTICS		
	Standard	IDROCOAT
Appearance		Liquid
Colour		transparent
Natura chimica		silanes-siloxanes in water
Density	EN 2811-1	0.80 ± 0.05 kg/L
Punto di infiammabilità a vaso chiuso	ASTM D 3828-87	> +21°C
Shelf life in original packaging and store in a dry place		24 months
Characteristics of product and workability		
Application temperature		+5°C ÷ +35°C
Application		manual or by spraying at low pressure
Performance characteristics	Standard	Product performance
Class and Type	EN 1504-2	H PI-MC-IR
Water absorption and resistance to alkalis	EN 13580	<7.5%
Absorption of water and alkali resistance after immersion in solution of alkali	EN 13580	<10%
Capillary water absorption	EN 13057	w < 0.1 kg/m²⋅h⁰.₅ - W3
Penetration depth	EN 1504-2 P.19/3	<10 mm - clasS I
Drying speed for hygrophobing impregnation	EN 13597	>30% - class I
Hazardous substances	EN 1504-2	According note in ZA.1

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. The values may vary according to the specific job site conditions: temperature, ventilation, absorbtion of substrate and applied product.

Pursuant to the general principles defined in EN 1504-2 - General principles for the use of products and systems.

(See previous)

- PRECAUTIONS
 Any alterations to the natural colour of stone or various kinds of support must be tested
- beforehand on a sample section.Crystalline and compact stones like marble are not suitable for impregnation.
- Do not keep the product in humid conditions.
- Do not apply in windy or rainy conditions or in bright sunlight.
- **IDROCOAT** is not suitable for dehumidifying plaster.
- When **IDROCOAT** is applied in closed environments, suitable ventilation must be provided and suitable protective equipment
- must be used (masks, etc.).



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10-litre Pail. 5-litre Can.

TAL QUALIT

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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