

Arredosil



WATER BASED COLOURLESS SILICONE SOLUTION FOR WATER REPELLENT PROTECTIVE OF RECONSTRUCTED STONE AND BRICKS FACINGS.

Technical Data Sheet – Rev. 03/2018

DESCRIPTION

ARREDOSIL is an emulsion based on silane-siloxane impregnating, water based, with high penetration capacity, exceptional water repellency and unaltered effectiveness over time. ARREDOSIL is non-toxic, with very low environmental impact and does not generate toxic or harmful fumes. It is characterized by a high impregnating power due to capillarity in all porous materials commonly used in construction. ARREDOSIL reacts with the environmental humidity and generates a strongly hydrophobic layer, however, able to maintain a good water vapor permeability of the treated structures.

FIELDS OF APPLICATION

ARREDOSIL is used for protective treatments against the aggression from weathering of reconstructed stone cladding and floors, exposed concrete structures, facing bricks, terracotta, plasters, porous natural stones, etc. The application of ARREDOSIL allows to obtain:

- strong decrease in the absorption of meteoric water or environmental humidity;
- greater resistance to freezing and thawing cycles;
- protection against rainwater infiltration
- reduction of the velocity of propagation of carbonation in concretes with a face and consequent protection of the reinforcements;
- protection against salt in marine areas;
- protection against acid rain and atmospheric agents in general;
- self-cleaning walls with less dirt retention;
- strong limitation to the formation of salt efflorescence;
- avoids the engraftment and proliferation of moss and mold;
- does not create waterproof film and therefore allows the masonry to breathe.

SUBSTRATE PREPARATION

The reconstructed stone covering or floor and all the substrates to be impregnated must be perfectly clean, free of greasy and dry substances in order to guarantee maximum penetration of the product. New concrete surfaces with traces of disarming oils or old, dusty surfaces with salt efflorescences, molds, mosses, dirt from atmospheric pollution can be prepared by preventive washing with a pressure washer. Wait until the surface is completely dry before proceeding with the application of ARREDOSIL.

APPLICATION

ARREDOSIL is ready to use and can be applied by brush, roller or spray evenly, until the substrate is completely saturated. It is advisable to apply the product in periods with a temperate climate avoiding particularly overheated supports. In the application avoid accumulation or percolation of product working it with the brush or with the sponge until completely absorbed. The duration of the water repellent effect depends greatly on the penetration depth of the impregnant. On very compact and smooth surfaces such as granites or terracotta, a dilution up to max. 20-30% with water. The second coat requires a smaller quantity of product and a greater care in its distension on the surface.

YIELD

0.25-0.50 kg/m² depending on the porosity of the support..

RECOMMENDATIONS

Shake the container well before use. On very compact and low-absorbent surfaces, product overdoses may leave a slight toning effect on the colors of the support. It is always advisable to carry out preliminary tests to verify the superficial aesthetic effect before complete treatment. Do not apply the product on damp or in rainy surfaces. Protect the treated coating from rain and run-off at least for the first 24 hours from laying, from the action of the sun and from frost until the product is completely cross-linked. All tools used for the application of ARREDOSIL can be washed with water before the product has hardened. ARREDOSIL is not suitable for the hydrophobing of plaster surfaces.

For further details or special uses contact our Technical Department.

PACKAGING

ARREDOSIL is available in 1 liter bottles and in 5 liter plastic cans. Keep the product in the original packaging tightly closed, in a dry and sheltered place, at temperatures between +5 °C and +30 °C. In these conditions it maintains its characteristics unaltered for at least 12 months.

TECHNICAL DATA

Aspect:	liquid
Colour:	opalescent white
Specific weight (g/cm ³):	~ 1
Brookfield viscosity (cPs):	500
Flammability:	no
Surface drying time:	2 h
Complete drying time:	72 h
Admitted application temperature:	from +5 °C to +30 °C

| Tests performed at 23°C-R.H. 50% in the absence of air ventilation |

SPECIFICATIONS

Water repellent protective treatment against the aggression from atmospheric agents of walls and pavements in reconstructed stone, natural stone, terracotta, cementitious surfaces in general, exposed concrete, by applying an emulsion based on silane-siloxane impregnating, water based, with high penetration capacity, **ARREDOSIL** type of the Pietre d'Arredo brand of COLMEF Srl, to be applied by brush, roller or spray, respecting a consumption of 0.25-0.50 kg/m² depending on the porosity of the support. The surfaces treated will not be altered from the aesthetic point of view and the breathability.

FOR FURTHER DETAILS OR SPECIAL USES, CONTACT THE **Pietre d'Arredo** TECHNICAL DEPARTMENT.

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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.