

TECHNICAL DATASHEET

PENOSIL Premium WaterSil

Water based impregnation agent containing silane/ siloxane. By penetrating deeply into the pores of the material, after drying within few days, it forms a surface that stays water-repellent for 5–10 years. It does not reduce the breathability of the treated material. It can be applied to natural stone, brick, concrete, lightweight concrete and plastered surfaces. As the treated surface becomes water-repellent, its thermal resistance also increases.

Field of application

An impregnation agent for natural stone, brick, concrete and plastered surfaces.

Application conditions

The surface and air temperature during application is between +5 °C and +35 °C and relative humidity must not exceed 80%.

Application instruction

Dirt, oil, grease, organic matter, laitance, old paint or other substances that might impair the penetration of the liquid are removed. A wet sandblaster or pressure washer is used. In order to achieve the best results, the surface is also to be washed when there is no visible dirt. The surface needs to dry off completely. All repairs with mortar use need enough time to dry off. Before application, windows, doors and other timber and metal surfaces should be covered up.

Shake the product before use. It is to be applied to the surface using a low pressure nozzle (e.g. garden sprayer), starting from the bottom and moving to the top. A brush or a paint roller may also be used. To achieve better absorption, the application starts with “moisturising” the surface. The surface should become saturated with liquid.

All of the product is to be applied to the surface within one working cycle!

Product consumption is 1–5 m²/l (or 0,2–1 l/m²) depending on the absorption of the surface. The result as a water drop effect is visible in couple of days.

Cleaning

The tools and surfaces splashed with superfluous liquid are to be washed with soapy water immediately. When dried, the product leaves visible traces on dense surfaces like glass, metal or paint. The dried, polymerized product can only be removed mechanically.

Technical specification

Property	Unit	Value
Surface dry	hour	1
Completely dry	hour	48
Density	g/cm ³	0,99
pH	hour	6,8
Average penetration depth	mm	3,2 (depending on a surface)
Water penetration reduction (ASTM C-642)	%	95
Vapour permeability	%	100

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified.

Colour

A milky liquid.

Package

1 L plastic bottle.
3 L, 10 L plastic canister.

Storage

Guaranteed storage time 24 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +30 °C, protect from freezing.

Safety requirements

Keep out of the reach of children. Avoid contact with skin and eyes. Wear suitable gloves. Detailed safety information is available on safety data sheet (SDS).