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# Solvesil

SILOXANIC WATER-RESISTANT PRESERVATIVE FOR INTERIOR AND EXTERIOR



CODE 0770002

SOLVESIL - V.2024-09-23

## DESCRIPTION

SOLVESIL is a silicone polymer, polysiloxane class, non-film forming product that is resistant to alkalis and weathering. It is indicated for giving water repellency to various types of mineral surfaces.

The CE marked product conforms to regulation EN 1504-2 which lays out the performance requirements for products used to repair and protect concrete structures.

SOLVESIL penetrates the substrate, drastically reducing the absorption of water through the surfaces while maintaining the substrate's permeability and original appearance.

SOLVESIL prevents both the progressive crumbling of the construction material, caused by freeze and thaw cycles, as well as the formation of unsightly white patches caused by water soluble salts extracted from the walls.

## TECHNICAL SPECIFICATIONS

- Nature of the binder: alkylpolysiloxanic oligomeric
- Solvent: aliphatic hydrocarbon mix.
- Specific gravity per UNI EN ISO 2811-1:  $0.80 \pm 0.05$  kg/l
- Appearance: transparent liquid
- Drying (at 25 C and 65% R.H.): total after 24 hours.

Performance characteristics relative to CE marking

\*Classification EN 1504-2: protection against ingress (PI) - hydrophobic impregnation (H) – system of conformity attestation 4 - data refers to concrete.

\*Penetration depth per EN 1504-2 table 3, n. 19: class I (<10 mm)

\*Water absorption and resistance to alkali per EN 13580: <7.5% compared with the untreated specimen; <10% after immersion in alkali solution

\*Drying rate for hydrophobic impregnation per EN 13579: class I (>30%)

## INSTRUCTIONS FOR USE

SOLVESIL is intended for use on vertical interior and exterior surfaces, whatever climatic and environmental conditions they are exposed to.

The product can be applied on:  
concrete, foamed concrete, absorbent mineral surfaces and stones, reinforced concrete, sandstone and limestone, exposed plastering and tiles.

- Do not apply over old paint or organic coatings.
- Do not apply on non-absorbent surfaces (glazed marble, granite) and gesso.

COATABILITY: Can not be painted over.

## PREPARING THE SURFACE

Stones or brickwork:

- Dust and clean the surfaces; in the event of a film of dirt, crust on the surface, flaking etc., clean using a water cleaning machine, water sandblasting, micro-sandblasting or chemical cleaning. It is advisable to perform a preliminary test in order to determine the most effective method and type of cleaning.
- Where the surface is affected by mould, treat the surfaces with COMBAT 222 Detergent 4810222 and with COMBAT 333 Restorer 4810333 before starting (see relevant technical sheets).
- Once the surface is dry, proceed with the application of several coats of SOLVESIL, wet on wet, to refusal.

## APPLICATION INSTRUCTIONS

Air and surface conditions:  
Air temperature: Min. +5 C / Max. +35 C.  
Relative humidity of the air: <80%.  
Temperature of the surface: Min. +5 C / Max. +35 C.  
Humidity of the surface: <10% R.H..

- Avoid applying the product when there is condensation on the surface, or in direct sunlight.
- The product can be applied by brush, by low pressure spraying.
- The product is ready to be used.
- When spraying using nozzle of 1.2 - 1.4 mm and pressure of the 2-2.5 kg/sq m
- N coats: the product must be applied with more coats, wet on wet, till the saturation, avoiding the dropping formation.
- The product gives the maximum water-repellence action after one day from the application.
- Protect the surfaces treated for at least 24 hours following the application.
- Tools should be cleaned using White spirit 5200010.
- Indicative spreading rate: change from the substrate absorption. We suggest to have a preliminary test.

Here some indicative spreading rate:

Beton 0.25-0.4 l/sq m  
Natural stone 0.3-1.2 l/sq m  
Bricks 0.6-1.0 l/sq m  
Plasters 0.5-0.8 l/sq m

## TINTING

The product is available transparent.

## STORAGE

Maximum temperature for storage stability: +30 °C  
Minimum temperature for storage stability: +5 °C  
Stability in the original closed containers stored at suitable temperatures: 18 months

## SAFETY RULES

Does not fall under EU directive 2004/42 (legislative decree 161/2006)

Flammable.

The product must be transported, used and stored in accordance with the standards in force regarding hygiene and safety; after use, do not litter, let residues dry out completely and treat them as special waste. Consult the safety data sheet for additional information.

## SPECIFICATION ITEM

Siloxane-based water-repellent protective coating classified according to EN 1504-2 as protection against ingress (PI) - hydrophobic impregnation (H). Applications, on previously prepared surfaces, of SOLVESIL siloxanic water-resistant preservative 0770002 - based on alkylpolysiloxanic polymers dispersed in a solvent, suitable for making absorbent walls water-repellent and for their protection - of a quantity determined by the level of absorption of the surface.

Supply and application of the material € ..... per m2.