

SOPRA SILICON

Description

A one part solvent based water repellent impregnation for absorbent cementitious substrates. It penetrates well into the open pores of the substrate, providing durable water repellency, while still allowing water vapour diffusion in both directions. **SOPRA SILICON** complies with the requirements of EN 1504-2 for hydrophobic Impregnation (penetration depth class I)

Recommended Uses

Used as water repellent and colourless protective surface treatment absorbent exposed materials such as concrete, cementitious rendering, concrete tiles, fiber cement, brickwork (clay and lime sand, non-vitrified), natural stone etc. Can also be used as hydrophobic primer under solvent based or water based protective coatings.

Used as water-repellent impregnation (hydrophobic treatment) for absorbent substrates such as concrete in civil engineering or building concrete structures. Suitable for protection against ingress (Principle 1, method 1.1 of EN 1504-9)

Suitable for moisture control (Principle 2, method 2.1 of EN 1504-9)

Suitable for increasing the resistivity (Principle 8, method 8.1 of EN 1504-9)

Features and benefits

- Reduces efflorescence.
- Reduces dirt penetration into the pores.
- Improves thermal insulation.
- Can be overcoated with solvent based and dispersion coating.
- Higher durability and resistance than conventional silicone based treatments.
- Does usually not change the appearance of the substrate.
- Reduces chloride ion ingress and movement.
- Does not act as a vapour barrier.

Standards Compliance

SOPRA SILICON satisfies the requirements of British Standards.

Packaging

SOPRA SILICON is available in and 1 Gal pail or 5Gal Pail

Storage

SOPRA SILICON has a shelf life of 12 months. Store in a dry place, away from direct sunlight.

Product data

Chemical Base	Silanes/Siloxanes blend in organic solvent.
Packaging	1 GAL or 5 GAL
Appearance / Colour	Colourless liquid.

Application Instructions

a) Surface preparation

Free of dust, oil, efflorescence and existing paint coatings. Cracks in concrete of more than 200 microns must be repaired prior to application of the hydrophobic treatment. Cleaning is best achieved by brushing with suitable detergents or by light blast cleaning or steam cleaning etc. Best results are obtained on dry, very absorbent substrates. The substrate must look dry with no damp patches.

b) Mix

SOPRA SILICON is supplied ready for use and should not be thinned.

c) Application

SOPRA SILICON is applied using low pressure spray, brush or roller, working from the bottom up taking care not to let the product run. Apply subsequent coats "wet on wet".

d) CLEANING OF TOOLS

Tools and application equipment should be cleaned with water immediately after use. Hardened material can only be mechanically removed.

Precautions

SOPRA SILICON is non-hazardous material. It should not be swallowed or come in direct contact with skin or eyes. Suitable protective glasses and gloves should be worn during application. In the case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice if irritation occurs. When contact with skin occurs, wash off immediately with clean water and soap. If swallowed, seek medical emergency immediately, do not induce vomiting.

Technical Support

Sopra provides on-site assistance and consultation services on projects if required. Technical Datasheets on other **Sopra** products and guidance on their use are available on request or on our website.

Warranty

The information relating to the application and end-use of **Sopra** products, are provided in good faith based on **Sopra's** current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with **Sopra** recommendations. In practice, the differences in substrates and actual site conditions are such that no warranty in respect of sale for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must do their test to insure that the product is suitable for the intended application and purpose. The company reserves the right to change the properties of its products without prior notice.