

SOPRA SILICON W

Description

SOPRA SILICON W is a one part low viscosity, reactive impregnation for concrete and cementitious substrates based on concentrated Silane/Siloxane emulsion. **SOPRA SILICON W** complies with the requirements of NCHRP Report 244 Series II & IV. **SOPRA SILICON W** complies with the highest requirements of EN 1504-2 for hydrophobic Impregnation (penetration depth class II & resistance to freeze-thaw cycles and chloride ion penetration).

Recommended Uses

SOPRA SILICON W is used as water-repellent penetrating sealer (hydrophobic treatment) for absorbent substrates such as:

- Walkways and ramps
- Industrial floors
- Exposed aggregate
- Pre-cast or pre-placed concrete
- Masonry
- Parking decks
- Stadiums
- Bridge Decks

Features and benefits

- Good penetration
- Economic and easy to use
- Reduces capillary water absorption, protection against driving rain and splashing on vertical areas
- Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. chlorides)
- No change in water vapour permeability
- Increases the resistance of concrete to freeze and thaw cycles and de-icing salts
- Water based emulsion, Low VOC
- Resistant to sea water
- Ready to use

Standards Compliance

SOPRA SILICON W satisfies the requirements of British Standards.

Packaging

SOPRA SILICON W is available in 20 Liter Gallon

Storage

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

Product data

Chemical Base	Silane/Siloxane
Packaging	20 L
Appearance / Colour	Milky

Application Instructions

a) Surface preparation

Best results are achieved when **SOPRA SILICON W** is applied on 28 days old concrete – however, due to its high alkali resistance; it is still possible to apply it as early as 3 days – lower penetration might then be expected. Best results are achieved on a dry, very absorbent substrate. All surfaces to be sealed must be dry, clean, sound before application. Remove all grease, curing compounds, surface treatments, coatings, oils, etc. Preparation Work: Concrete and masonry surfaces must be prepared using mechanical means (sandblast, shotblast, high pressure water, etc.). Cracks in concrete more than 12 mils must be repaired prior to application of the hydrophobic treatment. If using water to clean, substrate should be visibly dry (i.e. no damp/dark patches) before coating.

b) Mix

SOPRASILICON W is supplied ready for use and must not be diluted.

c) Application

SOPRA SILICON W 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 W 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 suitability for the intended application and purpose. The company reserves the right to change the properties of its products without prior notice.