

# COSTARGUARD

## Modified Water Repellent Silane Solution

### Description

CostarGuard is a modified water repellent silane solution based on a monomeric silane, specially intended for the external waterproofing of mineral building material. It is specially designed for long-term waterproofing and durability benefits to concrete.

### Application areas

- Rooftops & Podium Decks
- Car-parks
- Road & Rail Bridge Decks
- Wharf Decks & Marine Structures
- Airport Runways, Taxiways, Aprons
- Water Retaining Structures
- CostarGuard can also be used as a water repellent for mineral building materials especially substrate with low porosity such as concrete, clinker brick, ceramic tiles)
- It can be used as a water repellent under topcoat

### Features

- Solvent-Free, non-toxic and biodegradable
- Low VOC Content
- High depth of penetration
- Increased surface hardness
- Effective on micro cracks up to 0.3mm.
- Protects against alkali-aggregate reaction in concrete
- Reseals future hairline cracking.
- Reduction of chloride diffusion).
- Long-term performance - No re-application or future maintenance required.
- 100% trafficable after the first watering. Minimal risk of damage during construction or thereafter.
- 80% Water permeability reduction.
- Reduces scaling in freeze-thaw environments by 89% at 50 cycles.
- Suitable for tanking applications (positive hydrostatic pressure) - tested to 400 metres.
- Non Toxic - Certified suitability for potable water.

### Application Instruction

#### Substrate Preparation

CostarGuard must be applied to a clean, dry, dust-free concrete surface, at least 28 days old. All curing compounds must have degraded or be removed prior to application. Old or carbonated concrete requires a supplementary treatment to reinstate free calcium. During application, the temperature range should be within 50C and 400C. Ensure that the material does not come in contact with water before or during use.

Locate all cracks and flood with CostarGuard solution first ensuring they are filled with product. Apply the solution to the remaining area at a rate of between 4-5square meters per liter. When surface becomes touch dry - (usually 2-6 hours depending on wind conditions and ambient temperature) flood spray the treated areas with water. If product still wet at 6 hours, begin first watering.

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Ensure that the treated area receives three (3) waterings within the first 24 hour period after the treatment. Once each successive watering is touch dry, apply next watering until three (3) waterings have been conducted.

After the third watering, block drains and pond area for a minimum of 12 hours to verify a waterproof seal has been achieved.

### Application Rates

Normal: 1 litre to 5 square metres . This can vary depending on substrate porosity.

For cracked areas: an additional 1 litre per 3 lineal meters is recommended.

### Technical Details

Properties	Values	Unit	Specification
Freezing Point	-140	°C	
Flash Point	63		
Density (20°C)	Approx. 186	g/cm <sup>3</sup>	DIN 51757
Boiling Point	Approx. 186	°C	DIN 51751
Viscosity	0.95	mPa.s	-

### Curing Compounds

Water curing is recommended. Aqueous Acrylics that degrade within 28 days are also suitable.

### Packaging

CostarGuard is available in 5ltr and 20ltrs

### Shelf Life and Storage

No known limit to shelf life.

Keep container sealed and avoid prolonged exposure to direct sunlight. Always agitate drum or container before use.

### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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