



# Crocodile 9301 SQ Guard

## Concrete Waterproof Coating



### Penetrate Waterproof Coating for Structural Work

Crocodile 9301 SQ Guard contains a combination of octyltriethoxysilanes isomer and iso-octyltriethoxysilane. This is ideal to use as a penetrate primer for concrete and a reinforced concrete, protecting structures from water and humidity.

### Product Features

- Deep penetration to the concrete
- Contain no solvent, fully environmental-friendly
- Low VOCs
- High alkali resistance
- Highly reduce water and chloride absorption of concrete
- Still allow air to be absorbed through concrete with this coating
- Increase concrete freeze-thaw stability from applying salt solution to defrost ices on concrete surface
- Extend concrete life cycle
- Can be painted over

### Application

- Civil work concrete such as concrete barrier, traffic infrastructure like highway, road, bridge, concrete column, foundation, and dam.
- Concrete building structure
- Cement fiber board



## Application Instruction

### Substrate Preparation

- For new concrete, it must be at least 28 days matured before application, so it will not affect the maturing process of the concrete. The surface must be cleaned off from dirt and stain before application.
- For old concrete, the surface should be cleaned with high pressure water washer or high pressure 60c water and left to dry at least 2 days before applying Crocodile 9301 SQ Guard.
- In case of concrete crack, cracks must be filled before application.
- In case of old concrete, overall condition must be inspected before application.
- Deep penetrating coating might alter concrete color of the surface. Small area application before full application is recommended.

### Application

- Apply the coating with thin nap roller like a lambskin roller or with a spray gun on low pressure twice for best penetration to concrete.
- The second application must be done before the first application is fully dry for the best result and protection, even a cracked concrete surface.
- There must be no bubble on the surface during spraying.
- The working area and its parameters should be covered to prevent rainfall.

### Application Rate

Approximately 200-250 ml/sq.m./ 2 coats, depending on also concrete density.

### Technical Data

Test Method	Standard	Evaluation
Characteristic	-	Liquid / Transparent Blue
Silanes concentration	-	~ 99 %
Molecular weight	-	~ 276 g/mol
Density at 25 °C ± 1 °C	DIN 51757	0.87 g/cm <sup>3</sup>
Dynamic viscosity at 25 °C	DIN 51562	2.0 mPa.s
Boiling point at 1013 hPa	-	239 °C
Flash Point	ISO 3679	65 °C

### Restriction

- Do not apply the coating while the concrete is moist. For best efficiency, the concrete moisture should be no more than 4%.
- Do not use this product with asphalt. In case of applying for this on insulation material, there must be additional test that this product does not compromise insulation for the range of working temperature.



### Caution


- Flammable, must be kept away from spark, flame, and any source of ignition
- Keep in sealed container after use, and do not smoke in the area of application
- PPE is highly recommended when applying.
- Keep out of children's reach

### Storage

- Store in a well-ventilated area
- Well stored unopen product will last at least 1 year.
- Product passing best before date should be tested before using.

### Packing

Net weight: 100 liters/, 20 liters/bucket

	
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Wacker Chemie AG Hanns-Seidel-Platz 4 D-81737 München	
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EN 1504-2:2005	
Surface protection products Hydrophobic Impregnation	
Depth of penetration	class II: $\geq 10$ mm
Water adsorption and resistance to alkali:	absorption ratio < 7.5% compared with the untreated specimen < 10% after immersion in alkali solution
Drying rate for hydrophobic impregnation	class I: > 30 %
Loss of mass after freeze-thaw salt stress	fulfilled (weight loss at least 20 cycles later than untreated sample)
Dangerous substances	Complies with EN 1504-2, 5.3

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