

## Silane – Siloxane Water Based Hydrophobic Water Repellent Sealer

**Guardian SWR** is a water based, VOC free, nonflammable penetrating water repellent sealer specifically formulated for the protection of a wide variety of surfaces. It will penetrate into masonry, concrete, porous tiles, facades stones and grout and bond chemically to the surface rendering it hydrophobic. When cured it does not alter the appearance of surface and being non-film forming it will allow the substrate to “breathe”.

### Complies to EN 1504 Part 9 and EN1504 Part 2.

**Principle 1** : Protection against ingress (PI)

- **Method 1.1** : Hydrophobic impregnation

**Principle 2** : Moisture Control (MC)

- **Method 2.1** : Hydrophobic impregnation

**Principle 8** : Increasing resistivity (IR)

- **Method 8.1** : Hydrophobic impregnation

## USES & ADVANTAGES

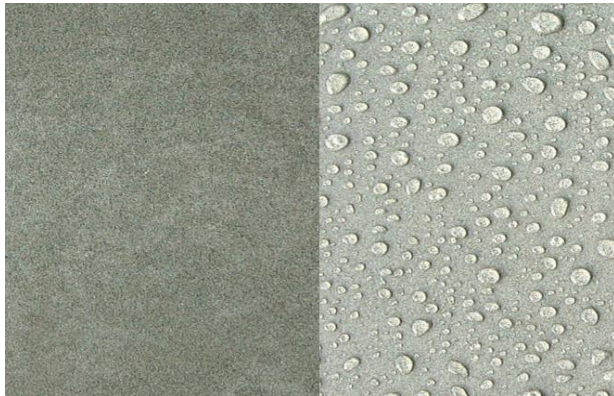
Uses include to protect concrete structures such as above grade tanks, reservoirs, columns, bridges, building facades, both old and new and other structures. Suitable for all tiles including ceramic, marble, slate and terracotta.

Use to increase water repellency in bricks, for increased durability of concrete paths, drives, and facades to reduce weathering on natural stone, to seal decorative tiles against moisture. For application in special conditions, consult Guardian for detailed information.

### Advantages Include:-

- Non film forming and not affected by UV radiation.
- Preventing spalling resulting from rebar attack.
- Easy to apply & ready to use.
- No costly removal of tiles or renders to re-waterproof walls.
- Good depth of penetration.
- Treated surfaces are hydrophobic and retain their original appearance.
- Water based and environmentally friendly.
- No fire hazard during application, VOC free.
- Long term effectiveness over 5-10 years.
- Minimises efflorescence.
- Keeps substrate clean longer and makes cleaning easier.
- Excellent resistance to chloride ion penetration and water permeability.
- 100% moisture vapour transmission.
- Non staining.
- Chemically resistant to fuels, atmospheric contaminants & oils.
- Suitable for many substrates.
- Average depth of penetration 2-5 mm depending on porosity.

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Concrete protected with **Guardian SWR**

### STANDARDS

The product complies to the following :

- ASTM C1202 – Chloride ion penetration – less than control.
- JIS A1404 – Water permeability – less than control.

### PROPERTIES

<b>Appearance :</b>	Milky liquid
<b>pH :</b>	4-8
<b>Specific Gravity :</b>	0.99-1.01 kg/litre

### SURFACE PREPARATION

Before using **Guardian SWR** it is important to ensure that the surface to which it is to be applied is dry clean and free from dust and loose material. All contaminants such as oil, grease or any surface contamination must be removed to ensure adequate penetration when the product is applied.

Remove any silicone sealant strips and clean mould off tiles and grout using bleach. Previously painted surfaces must have all of the existing coating removed to allow penetration into the tiles and grout.

Where surfaces have been water blasted or washed down to remove contamination they must be allowed to dry out completely before application is commenced otherwise impregnation will not occur. Cracked or damaged areas must be repaired and sealed prior to application of materials.

### APPLICATION

Always pre test surface to ensure no white precipitate is apparent, allow surface to dry for 24 hours. Start at top & work down keeping a wet edge at all times.

**Guardian SWR** can be applied by dipping, spraying or brushing. On tiles begin at the top of the wall and brush liberally over tiles and grouting. Finish with the base. Work well into edges. Use a soft, dry cloth to remove any excess solution left on the surface or the tiles. A second coat may be applied immediately (wet on wet). Allow to dry for at least 24 hours, before subjecting the surface to water.

It is advisable to protect in the bathrooms the shower screen, glass and any painted areas against splashes. Splashes can cause wetting and cleaning problems. If splashed, clean with water immediately.

**Guardian SWR** is not recommended for surfaces subjected to hydrostatic pressure.

### LIMITATIONS

Do not use the product below 0°C.  
Do not apply the product, if rain and high wind conditions are anticipated.

### COVERAGE RATES

**Guardian SWR** should be applied in 2 flood coats (wet on wet) at an application rate of 0.2 litres/m<sup>2</sup> per coat. It may be applied by roller, brush, or portable knapsack spray. Allowance should be made for substrate porosity and wastage

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### PACKAGING

25 litre pails & 200 litre drums.

### STORAGE & SHELF LIFE

When stored in original airtight containers at or below 25°C **Guardian SWR** has a shelf life of 6 months.

### HEALTH & SAFETY

**Guardian SWR** is an alkaline material. In enclosed areas provide ventilation. If on skin wash immediately, if in eyes flush immediately with water for at least 15 minutes & obtain prompt medical attention.

### TECHNICAL SERVICE

The Guardian Coating Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord.

All statements and data presented herein are given in good faith and believed to be appropriate and reliable. It is given without express or implied warrant or guarantee. Potential users of Guardian's materials are urged to conduct confirmatory trials to satisfy themselves as to the suitability of the selected product for their particular end use prior to purchase.