

# tensid uk Ltd

## Product Data

### PROSOCO Saltguard WB

#### Description and use

PROSOCO Saltguard WB is a ready to use water based, VOC compliant silane/siloxane water repellent and chloride screen for the protection of concrete and masonry surfaces.

Saltguard WB penetrates more deeply than conventional water or solvent based water repellents. Low odour and alkaline stable, Saltguard WB is ideal for field or in plant application to concrete and most masonry surfaces. Saltguard WB protects horizontal and vertical surfaces from moisture intrusion and chemical attack of chloride salts.

Saltguard WB's Volatile Organic Compound (VOC) content is less than 200 grams per litre.

*Recommended as follows. Always test.*

Substrate	Type		m <sup>2</sup> per litre
Architectural Concrete Block	Smooth	Yes	1.5 – 5
	Split faced	Yes	
	Burnished	Yes	
	Ribbed	Yes	
Marble Travertine Limestone	Polished	No	N/A
	Unpolished	No	N/A
Granite	Polished	No	N/A
	Unpolished	Yes	6 – 11
Sandstone	Unpolished	Yes	2 – 5
Slate	Unpolished	Yes	6 – 11
Fired Clay	Brick	Yes	2 – 5
	Tile	Yes	
	Terracotta	Yes	
	Pavers	Yes	
Concrete	Block	Yes	3 - 7
	Brick	Yes	
	Tile	Yes	
	Precast Panels	Yes	
	Pavers	Yes	
	Cast in place	Yes	

In coastal areas, Saltguard WB protects against salt air by screening chlorides from penetrating through concrete to the reinforcing steel. Saltguard WB reduces rebar corrosion and surface spalling caused by water carried salts. It may be used on horizontal surfaces such as driveways, pathways, tile or brick pavers. Provides excellent protection for retaining walls, bridge pilings and other vertical areas exposed to deicing salts.

Saltguard WB is an effective alternative to conventional solvent based silanes or siloxanes. It penetrates and chemically bonds deep within the concrete or masonry substrate to provide long lasting protection against moisture intrusion and water related staining or deterioration. When properly applied, Saltguard WB will not produce a surface film or impair the natural breathing characteristics of treated surfaces and does not significantly alter its natural appearance.

#### Advantages

- Penetrates deeply to produce long lasting protection on vertical or horizontal surfaces
- Water based formula minimises explosions and fire hazards associated with solvent or alcohol based water repellents
- Easy soap and water clean up
- Low odour reduces risk of application to occupied buildings
- Alkaline stable – suitable for new green concrete
- Ideal for field or in plant treatment of concrete or GFRC
- Effective chloride screen protection from deicing salts and salt air

#### Limitations

- Will not prevent water penetration through structural cracks, defects or open joints
- Limited initial surface repellency
- When applied to pH neutral surfaces, optimal performance may take up to 14 days to develop

Saltguard WB is not suitable for application to synthetic resin paints, gypsum, plaster or other non masonry surfaces. The product may not be suitable for surfaces to receive paints or coatings. Always test.

#### Technical Data

Active substance:	Emulsion of silanes and oligomeric alkyl alkoxy siloxanes
Active content:	10%
Form:	White, milky liquid
Specific gravity:	0.996
Flash point:	93.3 <sup>0</sup> C
VOC:	<200 grams per litre

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## Performance Tests

Laboratory testing has shown this product to be a singularly effective general purpose water repellent/chloride screen.

**Federal specification, SS-W-110C** reduction of water absorption (compared to untreated control) – 88%

**NCHRP 244 Series II** reduction of water absorption (compared to untreated control) – 85%

**ASTM C140** reduction of water absorption (compared to untreated control) – 92%

**Surface deterioration/discolouration** – None

**Penetration** – 3-35mm

## Resistance to:

Sunlight and alkalinity – excellent

Surface appearance (after application) – no change

## Preparation

Protect surrounding surfaces and beware of wind drift. Thoroughly clean the surface. Although Saltguard WB may be applied to slightly damp surfaces, best performance is achieved when applied to clean, visibly dry and absorbent surfaces. Excessive moisture will inhibit penetration and reduce the service life and performance of the treatment. Newly constructed and repointed surfaces should be cleaned and cured before application. Saltguard WB will not impair adhesion of most sealing and caulking compounds. Always test.

Surface and air temperatures must be a minimum of 4°C during application and remain above 4°C for 8 hours following. If freezing conditions exist prior to application, allow masonry to thaw thoroughly. Subfreezing temperatures will cause Saltguard WB to freeze or crystallise which will inhibit penetration and results. Surface and air temperatures should not exceed 35°C. Higher temperatures will cause rapid evaporation of water carrier and result in reduced penetration.

## Equipment

Apply with brush, roller or low compression sprayer.

## Pretesting

Always test each type of surface before overall application to ensure suitability and desired results. Apply test area according to the following application procedures. Allow area to dry thoroughly before inspection and approval.

## Dilutions

Do not dilute or alter material

## Application Instructions – Vertical Surfaces

For best results, apply Saltguard WB wet on wet to a visibly dry and absorbent surface.

1. When applying by sprayer, apply in a saturating application from the bottom up. Apply sufficient material to create a 15 to 20cm rundown below the spray contact point.

2. Allow the first application to penetrate the masonry surface for 5 –10 minutes and then reapply in the same saturating manner. Note: less material will be required for the second application.
3. When using a brush or roller, apply uniformly using sufficient material to saturate the surface. Allow to penetrate the masonry surface for 5-10 minutes. Brush out heavy runs and drips that do not penetrate.

## Application Instructions – Horizontal Surfaces

1. Apply Saltguard WB in a single saturating application. Apply sufficient material so that surface remains wet for 2 to 3 minutes before penetrating.
2. Broom out all puddles thoroughly until they penetrate the surface.

Treated surfaces will be dry to touch within 1 hour. Protect surfaces from rainfall for a minimum of 6 hours following treatment. Neutral pH surfaces may require several days to achieve full water repellent effectiveness.

## Paint Adhesion

Surfaces treated with Saltguard WB may be coated with silicone emulsion paints and many oil based paints. Always test. Adhesion may improve if surface is pressure rinsed and allowed to dry prior to application. Adhesion of some cementitious coatings, plaster, stucco etc may be adversely affected. Such surface treatment should be installed and allowed to thoroughly cure before installation of Saltguard WB.

## Coverage Rates

Coverage rate will vary according to surface texture and porosity.

## Packing

1 x 25 litre plastic container.

## Safety Information

May cause eye irritation. Do not swallow. Wear suitable PPE - goggles and gloves to avoid splash to bare skin or eyes. Always refer to material safety data sheet before use.

## Technical Data

Contains methanol.

## Shelf Life

Saltguard WB may be stored for up to 1 year in a tightly sealed, unopened container.

This Product Data is compiled to be of assistance but is without guarantee. Users are responsible for safe working practices. Always refer to msds for full information before using this product.