

tensid uk ltd

Product Data

PROSOCO Weather Seal Siloxane PD (Predilute)

Description and use

PROSOCO Weather Seal Siloxane PD is a ready to use, water based silane/siloxane water repellent. Designed for use on concrete and masonry surfaces, Siloxane PD penetrates more deeply than conventional water or solvent based water repellents. Low odour and alkaline stable, Siloxane PD is ideal for field or in plant application to colour sensitive concrete, GFRC, most masonry and stucco surfaces. Application equipment, window glass and areas affected from overspray are easily cleaned with soap and water.

Recommended as follows. Always test.

Substrate	Type		m ² per litre
Architectural Concrete Block	Smooth	Yes	1.5 – 6
	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 – 10
Sandstone	Unpolished	Yes	2 – 6
Slate	Unpolished	Yes	7 – 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	
GFRC	Smooth	Yes	3 - 11

Weather Seal Siloxane PD Volatile Organic Compound (VOC) content is less than 200 grams per litre.

Advantages

- Penetrates deeply to produce long lasting protection on vertical or horizontal surfaces.
- Low odour reduces risk of application to occupied buildings
- Alkaline stable – suitable for “green” concrete
- Ideal for field or in plant treatment of concrete or GFRC
- Easy soap and water cleanup from window glass, window frames and application equipment

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.

Technical Data

Active substance:	Emulsion of silanes and oligomeric alkyl alkoxsiloxanes
Solids	7.0%
Form:	White milky liquid
Specific Gravity:	1.000
Flash point:	93°C
VOC:	<200grams/litre(ASTM D 3960)

Performance Tests

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

ASTM C97 Reduction of water absorption (compared to untreated control) – 95%

ASTM C140 Reduction of water absorption (compared to untreated control) – 94%

ASTM C67 Reduction of water absorption (compared to untreated control) – 94%

Rilem II Tube test 5.0ml tube – 0.0ml loss

Surface deterioration/discolouration – none

Penetration – 3-35mm

Resistance to:

Sunlight – excellent

Alkalinity – excellent

Surface appearance (after application) – no change

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Preparation

Protect surrounding surfaces and beware of wind drift.

Thoroughly clean the surface. Although Siloxane PD 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 cleaner and cured before application. Siloxane PD will not impair adhesion of most sealing and caulking compounds. Always test.

Equipment

Apply with a low compression sprayer, brush or roller. Ensure all containers and equipment used are clean and uncontaminated.

Pretesting

Always test 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 Weather Seal siloxane PD wet on wet to a visibly dry and absorbent surfaces.

1. When applying by spray, apply in a saturating application from the bottom up. Apply sufficient material to create a 15 to 20 cm rundown below the spray contact point.
2. Allow the first application to penetrate the masonry surface for 5 to 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 Weather Seal Siloxane PD to penetrate the masonry surface for 5 to 10 minutes. Brush out heavy runs and drips that do not penetrate.

Application Instructions – Horizontal Surfaces

1. Apply Weather Seal Siloxane PD 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 one hour. Protect surfaces from rainfall for a minimum 6 hours following treatment. Neutral pH surfaces may require several days to achieve full water repellent effectiveness.

Paint Adhesion

Surfaces treated with Weather Seal Siloxane PD may be coated with silicone emulsion paints and many oil based paints. Testing is always necessary to assure adhesion. Adhesion may be improved 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 treatments should be installed and allowed to thoroughly cure before installation of Siloxane PD. Always test.

Coverage Rates

Coverage rates will vary according to surface porosity and texture.

Packing

1 x 25 litre plastic container.

Safety Information

May cause eye irritation. Wear suitable PPE - goggles, gloves to avoid splash to bare skin or eyes. Always refer to material safety data sheet before use.

Technical Data

Contains no hazardous ingredients greater than 1%.

Shelf Life

Weather Seal Siloxane PD 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.