

PRODUCT NAME

Gem-Gard™ SL ST WB

Water-based Silane Clear Sealer



MANUFACTURER

Gemite® Products Inc.

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FEATURES AND BENEFITS

- Water-based
- Penetrating
- Chemically Reactive with Substrate
- Reduces Water Absorption & Penetration
- Breathable
- Chemically Resistant to Atmospheric Contamination
- Long-Term Durability
- Increases Freeze/Thaw Resistance

PRODUCT DESCRIPTION

Basic Use

Gem-Gard SL ST WB - clear, water-based penetrating sealer preventing water intrusion into concrete. Primary use is on wall surfaces. It is also use as hydrophobic primer prior to application of other coatings. *Gem-Gard SL ST WB* must be let dry over night, prior to application of another coating.

Composition of Materials

Gem-Gard SL ST WB is formulated with small molecular size silane micro-emulsion, allowing maximum penetration into the concrete substrate. The organo-silicones in the presence of moisture react chemically with cement, providing a permanent bond of the active water repellent material. The sealer is breathable & allows the moisture contained in concrete to escape freely.

Limitations

Gem-Gard SL ST WB should not be used below grade, or under water head pressure, and it will not stop water penetration through hairline cracks under wind driven rain conditions exceeding in size 0.2 mm, (0.010 in). The sealer may cause a slight darkening of the substrate in some instances.

Prepare a site test sample for approval by client/architect if the possibility of a slight darkening is of concern.

Health and Safety

Gem-Gard SL ST WB is a nontoxic and nonflammable. If contact with skin occurs, wash with soap and water. Harmful if digested. Keep out of reach of children. FOR INDUSTRIAL USE ONLY. Consult SDS for additional information.

Packaging

Gem-Gard SL ST WB is supplied 20 L (5 USG) pails.

Coverage

Apply *Gem-Gard SL ST WB* at the following rates:

	US	Metric
Porous concrete and Brick	100-120 ft ² /US Gal.	2.5-2.9 m ² /L
Dense concrete	120-150 ft ² /US Gal.	2.9-3.7 m ² /L

The above figures are for estimation purposes only. The coverage rate must satisfy the surface porosity.

TECHNICAL DATA

Weight:	1.0 kg/L, 8.3 lbs/USG
Penetration	3 to 6 mm (1/8 - 1/4 in)
Water Absorption Reduction ASTM C642	88 % improvement over control
Freeze/Thaw Scaling: ASTM C672	Improves resistance to freeze/thaw scaling

Storage and Transportation

Shelf life of unopened containers is 6 (six) months. After opening, the material should be used within several weeks.

INSTALLATION

Surface must be clean and free of dust, dirt and other contaminants. The surface must be dry to allow good penetration of *Gem-Gard SL ST WB* . All caulking, patching and joint sealing must be installed prior to application of *Gem-Gard SL ST WB* . For maximum penetration a low pressure, airless spray is recommended. When using roller or brush, ensure that enough material is applied. Apply sufficient material to completely saturate the substrate.

MAINTENANCE

Resealing of the wall may be required to after some time to provide a continuing water protection. Depending upon the surface and application this may vary between 5-7 years. Please contact Gemite Products Inc. Additional information.

WARRANTY

A limited, twelve (12) months, Material Replacement Warranty is available. Contact Gemite for further information.

TECHNICAL SERVICE

For advice on suitability of *Gem-Gard SL ST WB* for a project, specification assistance and application advice contact Gemite Technical Service US (888) 443-6483 / Canada (905) 672-2020.

Short Specification

Gemite Products Inc.
July 1998

3 & 7

03064 Concrete Sealers
07180 Water Repellents

The water repellent sealer will be water-based silane micro-emulsion *Gem-Gard SL ST WB* manufactured by Gemite Products Inc. It shall be applied at a minimum rate of _____ m²/L (ft²)/USG as per manufacturer's current Guide Specifications and Application Instructions. It shall meet the following performance criteria:

Weight:	1.0 kg/L, 8.3 lbs/USG
Penetration	3 to 6 mm (1/8 - 1/4 in)
Water Absorption Reduction SS-W-110C	88 % improvement over control
Freeze/Thaw Scaling: ASTM C672	Improves resistance to freeze/thaw scaling