

PRODUCT NAME

Gem-Gard® SL Plus (VOC)
Silane Based Concrete Sealer



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- deep penetrability
- VOC compliant, below 400 g/L
- chemically reactive with the substrate
- reduces water and chloride penetration
- breathable
- does not discolor the surface
- chemically resistant to ice melting compounds, fuel, oils and atmospheric contamination
- can be applied to slightly damp surfaces
- long term durability
- increases freeze/thaw resistance of the substrate
- economical

PRODUCT DESCRIPTION

Basic Use

Gem-Gard SL Plus VOC is a clear, water repellent sealer which prevents water and chloride intrusion into concrete bridge decks, parking decks and abutments.

Composition of Materials

Gem-Gard SL Plus VOC contains silane solids diluted in VOC solvent. The small molecular size of the active materials allows maximum penetration into the concrete substrate. The composition is further modified to increase effectiveness of the silane. Silane in the presence of moisture, react chemically with cement. This chemical reaction provides a permanent bond of the active water repellent material. The sealer is breathable and allows the moisture contained in concrete to escape freely. *Gem-Gard SL Plus VOC* does not change the color of the substrate.

Limitations

Do not apply below grade or over damp surfaces, or if rain is imminent, or if either surface or ambient temperature is below 0°C (32°F), or when humidity is over 90%. Do not apply over painted surfaces or wood surfaces. *Gem-Gard SL Plus VOC* is not designed to waterproof cracked surfaces under wind

driven rain or other severe conditions. Wash all over-sprayed glass surfaces immediately.

Health and Safety

Solvents are flammable in liquid state. Use only in a well ventilated area. Keep away from heat, sparks and open flame. No smoking shall be allowed in or near the immediate work area. Use explosion proof equipment. Avoid breathing of vapor or spray mist. For exterior applications approved chemical cartridge respirator should be worn by the applicator. For interior application, use mechanical exhaust such as approved air line or positive pressure hose masks. For additional information on safety requirements, refer to *Gem-Gard SL Plus VOC* MSDS. **FOR INDUSTRIAL USE ONLY.** Keep the product out of reach of children.

Packaging

Gem-Gard SL Plus VOC is supplied in 20 L (5.3 USG) pails, or 209 L (55.2 USG) drums.

Coverage

Apply Gem-Gard SL Plus VOC at the following rates:

Dense concrete	2.9-3.7 m ² /L	120-150 ft ² /USG
Porous concrete and Brick	2.5-2.9 m ² /L	100-120 ft ² /USG

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

Storage and Transportation

Shelf life of unopened containers is twelve (12) months. After opening the container, the material must be used within several weeks. Packaged 36 pails per pallet.

TECHNICAL DATA (20% concentration)

Main Active Material	IBTMO silane 40% solids
Flash Point	16°C (62°F)
Solvent	Tertiary Butyl Acetate
Weight	0.88 kg/L (7.37 lbs/USG)
Penetration	3 to 6 mm (1/8 - 1/4 in)
Freeze/Thaw Scaling: ASTM C 672	Provides resistance to freeze/thaw
Surface Appearance:	No visual change after application

INSTALLATION

Guide Specification and Application Instructions contain additional information specific to each application and must be followed.

Gemite Products Inc.
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03064 Concrete Sealers
07180 Water Repellents

Surface Preparation

Surface must be clean and free of dust, dirt and other contaminants. Use high pressure waterblast, shotblast or sandblast. The surface to be treated may be damp, but must be absorbent to allow good penetration of *Gem-Gard SL Plus VOC*. All caulking, patching and joint sealing must be installed prior to application of *Gem-Gard SL Plus VOC*.

Application

Carry out test application to ensure compatibility, appearance and actual application rate. *Gem-Gard SL Plus VOC* contains flammable solvent. Do not use near fire and provide good ventilation when applying indoors. Applicators should wear respirators. All exterior air conditioning ventilators should be covered during application and air handling equipment be turned off. For maximum penetration a low pressure (20 psi) airless spray is recommended. Sprayer must be fitted with solvent resistant gaskets. When using roller or brush, ensure that enough material is applied. Apply sufficient material to completely saturate the substrate and brush out excess solution that does not penetrate.

Flat Surface

Apply *Gem-Gard SL Plus VOC* in a single saturating application to make the surface wet for 2-3 minutes before penetrating into the concrete substrate. Broom out thoroughly any pools and puddles until they completely penetrate into the surface.

Vertical Surfaces

Use two coats on porous surfaces; one coat is sufficient when treating dense and smooth concrete substrate. Apply *Gem-Gard SL Plus VOC* in flooding application. Start spraying appli

cation at the top of the area and use vertical strokes first to break the surface tension. Follow immediately with slow horizontal strokes. It is essential that 15 - 20 cm (6 - 8 in) rundown be maintained to obtain maximum penetration.

AVAILABILITY AND COST

Gem-Gard SL Plus VOC is available worldwide. Contact Gemite for the name of the nearest Representative / Distributor and pricing information.

MAINTENANCE

Contact Gemite Technical Service for information regarding maintenance.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Gemite's Head Office.

TECHNICAL SERVICE

For advice on suitability of *Gem-Gard SL Plus VOC* for a specific application, specification assistance and application advice contact Technical Services at (888) 443-6483 or (905) 672-2020.

Short Specification

The water repellent sealer *Gem-Gard SL Plus VOC* as manufactured by Gemite Products Inc., Amherst, NY (Mississauga, Ontario). It shall be applied at a minimum rate of _____ m²/ L (ft²/USG) as per manufacturer's current Guide Specifications and Application Instructions.