

# — SL100-B —

## SILANE SEALER

### TECHNICAL DATA SHEET

Rev. 12-2019



#### System Overview

SL100-B is a 100% penetrating silane sealer. It is formulated to be a clear, breathable, long-lasting, 100% silane, water repellent sealer to achieve the highest depth of penetration.

#### Product Highlights

- 100% silane
- Protects against chloride ion penetration
- Excellent depth of penetration
- Breathability allows interior moisture to escape without damaging sealer
- Solvent-based, excellent for cold weather applications
- Protects structures from damage caused by wind-driven rain
- Does not alter surface appearance
- Surface sealer helps reduce efflorescence, atmospheric staining, and mildew
- Extremely water repellent, penetrates deeply and chemically reacts within the pores of concrete for long-term protection
- Abrasion resistant so it provides long-lasting protection to horizontal substrates subject to traffic, such as bridge decks and highway surfaces

#### SL100-B — A PENETRATING SILANE SEALER

##### APPLICATIONS

- Interior and exterior
- Horizontal and vertical
- Above grade
- Traffic-bearing concrete substrates
- Bridge decks and substructures
- Concrete highway surfaces
- Ramps and barrier rails
- Parking garages
- Buildings
- Stadiums
- Many other reinforced concrete structures

##### SUBSTRATES

- Concrete
- Brick and masonry
- Stucco

##### PACKAGING

- 5 gallon (18.9 L) pails
- 55 gallon (208 L) drums

##### COLOR

Clear

##### SHELF LIFE

18 months when properly stored

##### YIELD

250-400 ft<sup>2</sup>/gallon (6-10 m<sup>2</sup>/L)

Coverage may vary greatly with porosity of the substrate; extreme porous substrate may require two coats. Perform test panels to ensure desired results and coverage rates.

##### STORAGE

Store in unopened containers in a clean, dry area between 35-110°F (2-43°C). Keep from freezing.

##### VOC CONTENT

Less than 350 g/L less water and exempt solvents.

##### TECHNICAL DATA COMPOSITION

SL100-B is a 100% Silane formulation, by weight.

##### COMPLIANCES

Alberta DOT, Type 1A

### Typical Properties

PROPERTY	VALUE
Penetration (mm) Average depth, depending upon substrate	2.54mm (0.10")
Surface appearance after application	Unchanged

### Warranty

ACP Industrial warrants this product to be free from manufacturing defects and to meet the technical properties, contained on the Technical Data Sheet, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. The only remedy for the Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of ACP. Any claims concerning this product must be received in writing within one (1) year from the date of shipment. All further technical advice is based on ACP's present knowledge and experience. A C P assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. ACP reserves the right to make any changes according to technological progress or further developments. The Purchaser must test the product for suitability for the intended application and purpose before proceeding with a full application. Performance of the product described herein should be verified by testing and carried out by qualified experts.

### TEST DATA

PROPERTY	RESULTS	TEST METHOD
Flash Point	129.2°F (54°C)	ISO 13736
Water Repellency After Heavy Abrasion	76.3% Exceeds Criteria	Alberta DOT Penetrating Sealer, Type 1A
Water Weight Gain, Reduction 250 ft <sup>2</sup> /gal (6.1 m <sup>2</sup> /L) 400 ft <sup>2</sup> /gal (9.8 m <sup>2</sup> /L)	87.4%	NCHRP 244 Series II - Cube Test
Absorbed Chloride, Reduction 250 ft <sup>2</sup> /gal (6.1 m <sup>2</sup> /L)	90.3%	NCHRP 244 Series II - Cube Test
Absorbed Chloride, Reduction	87.3% Exceeds Criteria	NCHRP 244 Series IV - Southern Climate
Freeze / Thaw Durability	0 - No Scaling	ASTM C 672
Water Repellency (1.0% Maximum Absorption)	Passed	Federal Spec SS-W-110C
Water Absorption Reduction	91.2%	ASTM C 642
Depth of Penetration	0.11" (2.79mm)	OHD L-40

*Test results were achieved under laboratory conditions. Nominal variations can be expected.*

## HOW TO APPLY

### *Surface Preparation*

1. Verify substrate has properly cured. Concrete should obtain 80% of design strength, typically achieved within 14–28 days.
2. Clean all surfaces of all sand, surface dust and dirt, oil, grease, chemical films and coatings, and other contaminants prior to application. Power wash, sandblast, or shotblast as necessary to achieve the desired surface condition. Repoint any loose, disintegrated, or cracked mortar and allow a minimum of 72 hours drying time before application.
3. Air, substrate, and material temperatures should be 20°F (-7°C) and rising at the time of the application. Substrate must be frost free. Do not apply sealer when temperatures are expected to fall below 20°F (-7°C) within 12 hours or when rain is expected within 4 hours following application. Maximum application temperature is 95°F (35°C). May be applied to slightly damp surfaces.
4. Crack control, caulking, patching, and expansion joint sealants can be installed before or after application of the sealer. Allow adequate curing time following sealant-manufacturer's recommendations. Following the application, remove excess product that might pond on a concave sealant joint.

## APPLICATION

1. Test a small area of the surface (minimum 5x5 ft [ 1.5x1.5 m ]) before general application to ensure desired performance results, aesthetics and coverage rates and to verify application technique. Allow 5–7 days for the product to fully react before evaluating. Contact Technical Service for detail.
2. Stir material thoroughly before and during application.
3. For horizontal surfaces, apply with a flooding action. Sealer may be applied with low-pressure spray, followed by brooming for even distribution.
4. For vertical surfaces, apply by low-pressure, non-atomizing sprayer. Apply from the bottom up for uniform distribution of the sealer. Apply to saturation, with a controlled rundown of 8" (20 cm). In certain cases, a mist coat before general application will help break the surface tension and assure maximum penetration of saturation coat.

## DRYING TIME

Typical drying time for SL100-B is 4–6 hours at 70°F (21°C) and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time.

## FOR BEST PERFORMANCE

- Do not apply during inclement weather or when inclement weather is anticipated within 12 hours.
- To prevent damage to nearby shrubbery and landscaping, cover or protect with drop cloth.
- Protect asphalt-based products such as roofing materials or plastic products from overspray.
- Caution should be taken with specialty coated glass. Small areas should be tested prior to application to ensure the product does not discolor the coating. Plastic windows will turn opaque when sprayed with this products.
- SL100-B will not inhibit water penetration through unsound or cracked surfaces or surfaces with defective flashing, caulking, or structural waterproofing.
- Variations in the texture and porosity of the substrate will affect the coverage and performance of the product.
- Paint line striping after the application of SL100-B.
- Windows or other non-absorbent substrates subject to overspray should be clean and contaminate free at the time of application. Cleaning may be required after application if dirt or dust is present for the silane to react with.
- Make certain the most current versions of Technical Data Sheets (TDS) and Safety Data Sheets (SDS) are being used.
- Proper application is the responsibility of the user. Field visits by ACP QA/QC personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

## CLEAN UP

Clean equipment with xylene.

## HEALTH, SAFETY & ENVIRONMENTAL

Read, understand and follow all SDS and product label information for this product prior to use. The SDS can be obtained by visiting [www.vortexcompanies.com](http://www.vortexcompanies.com). Use only as directed.

### *24 Hour Emergency Information:*

Domestic Shipments and to Canada:

800-633-8253

International Shipments:

801-629-0667