



HIGHWAY • AIRPORT • BRIDGE

# SILSPEC® PRIMER 2000 LV

## DESCRIPTION

SILSPEC® PRIMER 2000 LV is a two-component primer for bonding SILSPEC® 2000 to prepared concrete, elastomeric concrete, or steel. It can be applied by brush or roller or spray\*. It is used to create a strong bond between the substrate and SILSPEC® 2000, as well as help reduce the number of pinholes on porous substrate. It is designed to be easily applied at a wide range of temperatures for fast application times with SSI's SILSPEC® 2000 Polymer Nosing System.

SILSPEC® PRIMER 2000 LV is mixed by adding 1 volume resin to 1 volume iso. Then applied to the substrate immediately.

*\*Do not spray with high-pressure equipment or mix with metered dispensers.*

## SURFACE PREPARATION

### CONCRETE

1. The surface being coated must be fully cured 28 days, structurally sound (200psi or greater according to ASTM D 4541), clean (ASTM D 4258), and dry (less than 5%, ASTM E 1907 and D 4263) PRIMER WILL FOAM IF MOISTURE IS GREATER THAN 5%.
2. The surface must have low moisture-vapor transmission (less than 3lb/24hr/1,000 ft2, RMA Test Method).
3. Profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting or hydroblasting. Remove contaminants before blasting.

### STEEL & OTHER METALS

1. Steel surfaces must be cleaned before blasting (SSPC—SP1). Remove any sharp edges and other surface imperfections.
2. Dry abrasive blast surface according to SSPC-SP-10/NACE No 2 (0.003" profile). Remove any non-visible salt contamination (less than 3 mg/cm<sup>2</sup>, NACE 6G186. If necessary treat the surface with CHLOR-RID or equivalent remover until less than 3mg/cm<sup>2</sup> is detected.
3. Apply SILSPEC® PRIMER 2000 LV only if metal surface temperature is 5°F (3°C) above the dew point to avoid application over damp surface. Install SILSPEC® 2000 within the same day before the prepared metal surface is chemically contaminated and before flash rusting or oxidation reoccurs.
4. For aluminum or galvanized metals, contact your SSI representative for additional information.

## PACKAGING & YIELD

### PACKAGING

600ml Cartridge Set  
2 Gallon Kit (7.6L)

### COLOR

Clear/Amber

### YIELD (Approximate, and can vary due to substrate conditions)

30 SF/Cartridge (2.8 m<sup>2</sup>)  
192 SF/Gallon at 4mils (18 m<sup>2</sup>)

## SHELF LIFE

1 Year when properly stored.

### STORE INSIDE ONLY AT 60-90°F (15 to 32°C)

Store and ship this product in a clean, dry, low-humidity, shaded or covered environment.

## PROCESSING

1. If possible, precondition to 70°F (21°C) before use.
2. Do not dilute product. Mix resin for 2 to 3 minutes using an appropriate mixer for the package size. Contact SSI for mixing recommendations.

## MIXING AND APPLICATION

### PREPARATION

1. SILSPEC® PRIMER 2000 LV can be mechanically mixed and applied using a mixing blade and drill. Care must be taken to rapidly mix and pour the material onto the concrete surface to avoid pot life issues.
2. Only mix material in a 1:1 (resin:iso) ratio by volume, the primer **MUST** be applied prior to and allowed to dry before installing form if using in a joint repair or header installation.
3. Protect the surfaces around the application area to prevent contamination during installation.
4. Ensure that surfaces are ready for application of SILSPEC® PRIMER 2000 LV before applying mixed material.
5. Ensure that the mixing station is a short distance from the application area.

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## MIXING AND APPLICATION

### 600ml Cartridge:

1. Attach the supplied mixer nozzle to the cartridge and dispense the primer onto the substrate.
2. Spread the Primer 2000 LV with a brush, roller or trigger-type hand sprayer to an approximate 4mil coating.
3. Brush-out any puddles of the primer.
4. Allow to dry 10 to 30 minutes depending on conditions.

### 2 Gallon Unit:

1. Vigorously shake both resin and iso containers for 30 seconds prior to mixing.
2. Add the SILSPEC® PRIMER 2000 LV resin component into an appropriate sized container.
3. Add the isocyanate to the mixing container and mix for 15 seconds or until uniform.
4. All of the resin and iso must be thoroughly mixed before applying to the surface. **THE MATERIAL MAY NOT CURE PROPERLY IF IT IS IMPROPERLY MIXED.**
5. IMMEDIATELY pour and brush, roll or spray to apply SILSPEC® PRIMER 2000 LV onto the surface. If material begins to gel, stop and dispose of solidified material.
6. When the material is on the substrate surface, the working life is 5 minutes at 70°F but will vary with temperature.
7. Material may foam where puddled and is normal. As necessary mechanically remove foamed areas.
8. See included drying chart for SILSPEC® 2000 application times.

## SPRAY APPLICATION

SILSPEC® PRIMER 2000 LV may be applied by spray application with a small trigger sprayer. The material should be applied to wet the surface, but not running down vertical surfaces or puddling on horizontal surfaces. Runs or puddles should be brushed out to an even surface coating. Working time at 70°F (21°C) is approximately 20 minutes. Sprayer may be cleaned with Acetone while material is still liquid.

## CLEANING AND MAINTENANCE

- Use appropriate cleaner on tools and equipment after every use.
- Contact SSI for recommended cleaners.

## TYPICAL PROPERTIES

Solids Content	96.4%	ASTM D2369
Working Time, cup	20 minutes	70°F (21°C)
Concrete Adhesion	>1000 psi (6.9 MPa)	ASTM D4541
Steel Adhesion	>1000 psi (6.9 MPa)	ASTM D4541
Min. Application Time, Concrete Substrate, 70°F (21°C)	20 Minutes	
Min. Application Time, Concrete Substrate, 40°F (4°C)	30 Minutes	
Mix Ratio	1:1	By Volume

## SILSPEC® 2000 Mortar Application Times\*

95°F (35°C)	10 Minutes	*Application Times can vary due to ambient and substrate conditions.
70°F (21°C)	20 Minutes	
40°F (4°C)	30 Minutes	

## HEALTH AND SAFETY

It is the users responsibility to familiarize themselves with all safety precautions prior to use. A product SDS is provided upon request by contacting SSI at (800)888-8909.

**FOR CHEMICAL EMERGENCY CALL INFOTRAC  
1-800-535-5053.**

**24 hours per day, 7 days per week.**

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800-888-8909 • Fax 918-582-7510 • www.ssicm.com

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## For Purchase, contact SSI at the following locations:

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