

# Siloxane WB Concentrate

long-lasting, high-performance water repellent

## DESCRIPTION AND USE

Sure Klean® Weather Seal Siloxane WB Concentrate is a concentrated water repellent designed for dilution with fresh water at the job site. This solvent-free blend of silanes and oligomeric alkoxy siloxanes mixes easily with water to produce a penetrating water repellent ideal for application to dense or porous masonry surfaces.

An effective alternative to conventional solvent-based silanes or siloxanes, Siloxane WB penetrates and chemically bonds deep within the masonry substrate to provide long-lasting protection against water-related staining or deterioration. Will not darken, produce a surface film or impair the natural breathing characteristics of treated surfaces.

## ADVANTAGES

- Treated surfaces “breathe” – does not trap moisture.
- Concentrate – minimizes storage, transport and container disposal requirements.
- Mix with up to 19 parts fresh water. One gallon concentrate treats up to 4,000 square feet. Consult coverage rates.
- Alkaline stable – suitable for new concrete.
- Penetrates deeply – effective on vertical or horizontal surfaces.
- Ideal for field or in-plant treatment of precast concrete or GFRC.
- Complies with all known national, state and district AIM VOC regulations.

## Limitations

- Product must be applied within 24 hours of dilution for maximum effectiveness.
- Will not prevent water penetration through structural cracks, defects or open joints.

**Siloxane WB is recommended for these substrates. Always test. Coverage is in sq.ft./m. per diluted gallon.**

Substrate	Type	Use?	Coverage
<b>Architectural Concrete Block</b>	Burnished*	yes	75-125 sq.ft. 7-12 sq.m.
	Smooth	yes	30-100 sq.ft. 3-9 sq.m.
	Split-faced	yes	30-85 sq.ft. 3-8 sq.m.
	Ribbed	yes	30-85 sq.ft. 3-8 sq.m.
<b>Concrete</b>	Brick	yes	75-150 sq.ft. 7-14 sq.m.
	Tile	yes	100-150 sq.ft. 9-14 sq.m.
	Precast Panels	yes	125-200 sq.ft. 12-19 sq.m.
	Pavers	yes	100-200 sq.ft. 9-19 sq.m.
	Cast-in-place	yes	125-200 sq.ft. 12-19 sq.m.
<b>Fired Clay</b>	Brick	yes	100-250 sq.ft. 9-23 sq.m.
	Tile	yes	
	Terra Cotta	yes	
	Pavers	yes	
<b>Marble, Travertine, Limestone</b>	Polished	no	NA
	Unpolished	no	NA
<b>Granite</b>	Polished	no	NA
	Unpolished	no	NA
<b>Sandstone</b>	Unpolished	yes	60-100 sq.ft. 6-9 sq.m.
<b>Slate</b>	Unpolished	yes	200-400 sq.ft. 19-37 sq.m.

\*Not effective if pretreated with an acrylic coating. Coverage rates will vary depending on dilution. Always test to ensure desired results. Coverage estimates depend on surface texture and porosity.

## TYPICAL TECHNICAL DATA

FORM: Clear amber liquid  
 SPECIFIC GRAVITY: .96  
 ACTIVE CONTENT\*: 100%  
 pH: NA  
 WT./GAL.: 7.9 lbs.  
 FLASH POINT: 69°F (21°C) concentrate ASTM D 3278  
 140°F (60°C) in 1:9 dilution  
 145°F (62°C) in 1:14 dilution  
 FREEZE POINT: < -22°F (< -30°C)

## VOC Information for Recommended Dilutions

US EPA: maximum VOC content 600 g/L  
 CARB SCM Districts: maximum VOC content 120 g/L  
 SCAQMD: maximum VOC content 120 g/L  
 Maricopa County, AZ: maximum VOC content 400 g/L  
 NEOTC: maximum VOC content 120 g/L

## PREPARATION

**Protect** people, vehicles, property, plants, windows and all surfaces not set for treatment from product, splash, residue, fumes and wind drift. Use polyethylene or other tested material for protecting nonmasonry surfaces. Protect/divert pedestrian and auto traffic.

Surface should be clean, dry and absorbent. If necessary, thoroughly clean the surface using the appropriate Sure Klean® product. Excessive moisture inhibits penetration and reduces the service life and performance of the treatment.

Newly constructed and repointed surfaces should be clean, dry and thoroughly cured before application. Sealing and caulking compounds should be in place and cured.

Siloxane WB Concentrate

### Surface and Air Temperatures

Surface and air temperatures must be at least 40°F (4°C) during application and for 8 hours following. If freezing conditions exist before application, let masonry thaw. Subfreezing temperatures will cause Siloxane WB to freeze or crystallize, which inhibits penetration and impairs results.

Surface and air temperatures should not exceed 90°F (32°C). Higher temperatures cause rapid evaporation of water carrier and result in reduced penetration.

### Equipment

Apply with brush, roller or low-pressure spray (<50 psi). Fan tips are recommended for sprayers. Avoid atomization of material.

## APPLICATION

Before use, read “Preparation” and “Safety Information.”

**ALWAYS TEST** each type of surface for suitability and desired results. Test using the following dilution and application instructions. Let test dry thoroughly before inspection.

### Dilution

Dilute with clean, potable water only. Mixing vessels must be clean, dry and free of contaminants. When added to water, Siloxane WB turns milky white. Mix lightly to produce a uniform consistency.

Siloxane WB is most effective when prepared solutions are applied within 8 hours of dilution, and must be applied within 24 hours of dilution.

### Dilution Ratios

#### Vertical Surfaces

Porous	1 part concentrate : 9 parts water
Semiporous	1 part concentrate : 14 parts water
Dense	1 part concentrate : 19 parts water

#### Horizontal Surfaces

Porous	1 part concentrate : 7 parts water
Semiporous	1 part concentrate : 9 parts water
Dense	1 part concentrate : 14 parts water

NOTE: One gallon of Siloxane WB concentrate produces up to 20 gallons of water repellent (on dense vertical surfaces). Always Test for most appropriate coverage rates.

### Vertical Application Instructions

For best results, Siloxane WB should be applied “wet-on-wet” to a visibly dry and absorbent surface.

1. When applying by spray, apply in a saturating application from the bottom up. Apply enough material to create a 4” to 8” (15 to 20 cm) rundown below the spray contact point.
2. Let the first application penetrate the masonry surface for 2 to 3 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. Use enough material to saturate the surface. Let Siloxane WB penetrate the masonry surface for 2 to 3 minutes. Brush out heavy runs and drips that do not penetrate.

### Horizontal Application Instructions

1. Apply Siloxane WB in a single saturating application. Apply enough to keep the surface wet for 2 to 3 minutes before penetrating.
2. Broom out all puddles until they penetrate the surface.

### Dense Surface Application Instructions

On dense surfaces apply a single coat. Use enough Siloxane WB to completely wet the surface without creating drips, puddles or rundown. **DO NOT OVERAPPLY.** Test for application rate.

Treated surfaces will dry to touch within 1 hour. Protect surfaces from rainfall for a minimum of 4 hours following treatment. Protect from foot and vehicle traffic until visibly dry. Surfaces may require as many as 72 hours to gain their water repellency properties.

### Clean Up

Clean tools and equipment immediately with soap and warm water.

## SAFETY INFORMATION

Danger. Poison. Flammable liquid and vapor. May be fatal or cause blindness if swallowed. Vapor harmful. For use by professional applicators only. Keep out of the reach of children.

### Precautions

**Contains:** Alkoxysilane, alkyl siloxane, silicate, acetic acid, methanol and ethanol. Cannot be made nonpoisonous. May affect the brain or nervous system causing dizziness, headache, or nausea. Concentrate causes severe eye and skin irritation. Handle concentrate in well-ventilated area away from heat and ignition sources. Vapors may travel to remote sources and ignite explosively. Bond and ground during transfers. Wear splash goggles and gloves. Tightly close container after each withdrawal.

**Diluted product and vapors are combustible.** Eliminate ignition sources in high temperature and interior applications. Use care when applying to heated surfaces. **Use only with adequate ventilation.** Provide adequate cross-ventilation during interior application and curing. Protect passersby and building occupants from product, mists and wind drift. Shut down and cover ventilation systems that may allow mists or fumes into occupied building. Methanol and ethanol will evolve during product curing. May cause eye, skin and respiratory irritation. Avoid eye contact. Wear safety glasses or splash goggles depending on application procedures. Avoid prolonged skin contact. Wear rubber gloves and long-sleeved work clothing or splash-resistant clothing as needed. Do not breathe vapors or mist. Wear a NIOSH-approved dust/mist respirator if mists are present. Wear appropriate respiratory protection or increase ventilation if you feel dizzy or nauseous or if the TLV of any substance is exceeded.

**Storage and Handling:** Store and transport upright with lid tightly in place. Store in a cool, dry place away from heat and ignition sources. Do not reuse container or remove the label. Do not atomize. Wash thoroughly after handling. Do not alter, dilute product or use for applications other than specified.

**If spilled,** keep from drains and soil. Absorb with inert media. Dispose of contaminated absorbent, container and product in accordance with local, state and federal regulations. Read the MSDS and label for additional precautionary information.

### **First Aid**

*Ingestion:* Call a physician, emergency room or poison control center immediately for instruction on safely inducing vomiting. If vomiting occurs, keep head below hips to avoid aspiration. Risk of methanol poisoning decreases with dilute product.

*Eye Contact:* Rinse thoroughly for 15 minutes. Get immediate medical assistance.

*Skin Contact:* Remove contaminated clothing and rinse thoroughly. Seek medical assistance if persistent irritation develops. Launder contaminated clothing before reuse.

*Inhalation:* No ill effects expected. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

**24-Hour Emergency Information: INFOTRAC at 800-535-5053**

**Shelf Life:** 1 year from the date of manufacture in tightly sealed, unopened container.

### **WARRANTY**

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

### **CUSTOMER CARE**

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at [www.prosoco.com](http://www.prosoco.com), and request the name of the Sure Klean® Weather Seal representative in your area.

---

\*PROSOCO Technical Data for reactive, penetrating protective treatments reports Active Content – a calculated value based on raw materials used in the formulation. Some active content is consumed as the treatment polymerizes, reacts and bonds with the substrate.

ASTM D 5095 - Standard Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes and Silane-Siloxane Blends Used in Masonry Water Repellent Treatments – adds a catalyst to reactive treatments to measure total solids. Total solids for this product is 48%.