



# PROSOCO®

You. Us. The project.

## Silane 100

PROSOCO® Silane 100 is a modified, “neat” silane system that offers invisible protection and low volatility. Silane 100 protects horizontal and vertical concrete and masonry surfaces against water intrusion and salt attack. The absence of a solvent carrier enables applicators to achieve up to 5 times the coverage rate normally achieved with solvent-reduced protective treatments. Depth of penetration is controlled by the application rate (loading rate).

### TYPICAL TECHNICAL DATA

<b>FORM</b>	clear, slightly yellow liquid, slight alcohol odor
<b>SPECIFIC GRAVITY</b>	0.88
<b>pH</b>	not applicable
<b>WT/GAL</b>	7.33 lbs
<b>ACTIVE CONTENT</b>	100%
<b>VOC CONTENT</b>	350 g/L maximum Reactive Penetrating Sealer
<b>FLASH POINT</b>	>149° F (>65° C) ASTM D3278
<b>WATER VAPOR TRANSMISSION</b>	82% retention ASTM D6490
<b>SHELF LIFE</b>	1 year in tightly sealed, unopened container

### ADVANTAGES

- Long-lasting protection
- Does not form a film or gloss
- 100% silane
- Compatible with silicate hardeners/densifiers
- Treated surfaces “breathe” – does not trap moisture
- Easy to apply with conventional spray equipment
- Reduces efflorescence, mildew and atmospheric staining.
- Leaves little or no residue on clean window glass. Always test
- Forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts

- Safe for use on surfaces subjected to vehicle traffic
- Suitable for application on cured, cured & honed, and cured & polished concrete
- Resists water penetration when applied over existing shrinkage cracks of 0.02 inches or less
- Suitable for sale in most states and districts with more restrictive AIM VOC regulations

### Limitations

- Not suitable for asphalt or other non-masonry materials
- Not appropriate for use on limestone, marble, travertine or other calcareous stones. Always test other natural stone to ensure desired results
- May darken dense, colored, or other sensitive substrates
- Not recommended for below-grade applications or for use under hydrostatic pressure
- Will not prevent water penetration through structural cracks, defects or open joints
- Not available in South Coast Air Quality Management District

### REGULATORY COMPLIANCE

#### VOC Compliance

PROSOCO® Silane 100 is compliant with the US Environmental Protection Agency’s AIM VOC regulations.

Visit [www.prosoco.com/voccompliance](http://www.prosoco.com/voccompliance) to confirm compliance with individual district or state regulations.

### SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

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

# Product Data Sheet

## PROSOCO® Silane 100

### PREPARATION

Protect people, vehicles, property, plants and all non-masonry surfaces from product, splash, residue, fumes, mists and wind drift. Divert and/or protect auto and pedestrian traffic.

Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources of ignition during use and until all vapors are gone. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment is shut down during application and until all vapors have dissipated.

If possible, install all caulking, patching and joint sealants before application. If impractical, test for adhesion and grind joints as required to properly prepare for caulking, etc.

Remove all dirt and surface contaminants (including waxes and sealers) with appropriate PROSOCO cleaner. Do not use raw acids. Rinse thoroughly to remove all cleaning compounds and residues. Let surfaces dry thoroughly before application.

Recommended for these substrates. Always test. Coverage is in sq.ft./m. per gallon.			
Substrate	Type	Use?	Coverage
Concrete*	Brick	yes	150–400 sq.ft. 14–37 sq.m.
	Tile	yes	
	Precast Panels	yes	
	Pavers	yes	
	Cast-in-place	yes	
Fired Clay*	Brick	yes	200–500 sq.ft. 19–46 sq.m.
	Tile	yes	
	Terra Cotta (unglazed)	yes	
	Pavers	yes	
Marble, Travertine, Limestone	Polished	no	N/A
	Unpolished	no	N/A
Granite	Polished	yes	1000–1500 sq.ft. 93–139 sq.m.
	Unpolished	yes	300–500 sq.ft. 28–46 sq.m.
Sandstone	Unpolished	yes	200–400 sq.ft. 19–37 sq.m.
Slate	Unpolished	yes	300–600 sq.ft. 28–56 sq.m.
*May have limited effectiveness on highly porous or neutral pH surfaces. Always test to ensure desired results. Coverage estimates depend on surface texture and porosity.			

Surfaces should be thoroughly clean and free of dust, surface dirt, oil, grease and other contaminants that might prevent penetration. Carefully inspect before application for dust, dirt, moisture or other contaminants that can cause the product to react and stain the material.

The top of walls need to be capped and made watertight prior to application.

New concrete should be thoroughly cured a minimum of 14–28 days before application. Surfaces to be treated may be damp but should be absorbent to ensure good penetration.

On existing buildings, all caulking, patching and joint sealants should be in place and cured before application. If applied before installation of caulking, patching and joint sealants, test to verify compatibility.

**Specifier's Note – Curing New Concrete:** Blanket or water curing is recommended whenever possible. If a chemical curing agent is to be used during installation of new concrete, a test area is recommended just before general application to ensure compatibility. Dissipating-type curing agents are recommended. Do not over apply the curing agent. Removal of all surface films and contaminants is necessary for best performance.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application.

**NOTE:** Some floor and wall systems incorporate asphaltic or other crack-suppression membranes. This deeply penetrative protective treatment may penetrate through exposed stone, tile, grout or paver surfaces and react with the membrane to mobilize objectionable staining. Always pretest to ensure desired results.

### Surface and Air Temperatures

Do not apply at temperatures less than 40°F (4°C) or greater than 95°F (35°C). Application on windy days may cause rapid evaporation and should be avoided. On warm days, apply early in the day and to shaded areas. If freezing conditions exist before application, let the masonry thaw. The presence of frozen moisture will inhibit product penetration.

### Equipment

Recommended application is by high volume, low-pressure (<50 psi) spray equipment. Fan spray tips are recommended. Do not atomize the material.

Battery powered pump sprayers should be rated as explosion proof. Sprayers should be fitted with solvent-resistant hoses and gaskets to avoid discoloration.



# Product Data Sheet

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Brushes and rollers may not achieve a uniform, extended coverage rate on large-scale applications, which could reduce cost efficiency. For small scale application, or when spray application is not appropriate, product may be applied using brush or roller.

### Storage and Handling

Store in a cool, dry place away from potential ignition sources. Keep tightly closed when not dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 45–100°F (7–38°C). Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

### APPLICATION

Read “Preparation” and the Safety Data Sheet before use.

**ALWAYS TEST** a small area of each surface to confirm suitability, coverage rates and desired results before starting overall application. Include in the test area any previous repairs and patches, including aesthetic cementitious finishes. Different surface compositions may result in absorption and/or appearance differences. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let the surface dry thoroughly before inspection.

### Dilution & Mixing

Apply as packaged. Do not dilute or alter, or use for purposes other than specified. Mix or stir well before use.

### Application Instructions

#### Horizontal Surfaces

Apply once using enough material to keep the surface wet approximately 30 to 60 seconds before penetrating. Broom out puddles until they completely penetrate the surface.

#### Vertical Surfaces

Saturate surface in a single application. Use enough to thoroughly wet the surface. Thoroughly brush heavy runs and drips into the surface.

#### Dense Surfaces

On dense surfaces apply a single coat. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Test for application rate.

### Second Coat Application

A second application may be needed on some porous surfaces. Apply the second coat a few minutes after the first coat has penetrated and appears dry. Silane 100 may have limited effectiveness on highly porous surfaces. Always test.

### Drying Time

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. PROSOCO® Silane 100 gains its water-repellency properties in 72 hours.

### Cleanup

Clean tools and equipment immediately with mineral spirits, denatured alcohol, IPA or equivalent cleaning solvent. Remove rundown, over spray and spills as soon as possible.

### Maintenance

Remove spills or stains from surfaces treated with Silane 100 as soon as possible to minimize any potential for damage. Do not use raw acids. On horizontal surfaces, remove surface dust and debris using a microfiber pad or dry dust mop. Acid concentrates and acidic foods may etch the floor and leave a residual stain.

For recommendations on the appropriate PROSOCO® maintenance cleaner or specialty stain remover contact Customer Care at 800-255-4255.

### 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

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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), for the name of the PROSOCO representative in your area.

