



PROSOCO®

You. Us. The project.

Silane 40

PROSOCO® Silane 40 is a clear, penetrating silane water repellent for concrete surfaces containing a solution of silane reduced in solvents. Silane 40 protects horizontal and vertical concrete and masonry surfaces against water intrusion and salt attack. The product's low viscosity and small molecular size allows maximum penetration into the concrete or masonry surfaces.

PROSOCO® Silane 40 chemically reacts with the substrate to produce a long-lasting water repellent effect. Surfaces treated with Silane 40 maintain their vapor permeability, slip resistance and other surface characteristics. Depth of penetration is controlled by the application rate (loading rate).

TYPICAL TECHNICAL DATA

FORM	clear, colorless liquid, alcohol odor
SPECIFIC GRAVITY	0.822
pH	not applicable
WT/GAL	6.84 lbs
ACTIVE CONTENT	40%
VOC CONTENT	600 g/L maximum
FLASH POINT	32° F (0° C) ASTM D3278
WATER VAPOR TRANSMISSION	91% retention ASTM D6490
SHELF LIFE	1 year in tightly sealed, unopened container

ADVANTAGES

- Long-lasting protection of concrete and masonry against the damaging effects of water and deicing salts
- Forms an effective chloride screen that reduces corrosion of rebar in reinforced concrete caused by water and water-carried salts
- Does not form a surface film or gloss
- Treated surfaces “breathe” – does not trap moisture

- Reduces efflorescence, mildew and atmospheric staining.
- Leaves little or no residue on clean window glass. Always test
- Safe for use on surfaces subjected to vehicle traffic
- Resists water penetration when applied over existing shrinkage cracks of 0.02 inches or less

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 suitable for sale in states and districts with more restrictive AIM VOC regulations

REGULATORY COMPLIANCE

VOC Compliance

PROSOCO® Silane 40 is compliant with the US Environmental Protection Agency's AIM VOC regulations. Not suitable for sale in states and districts with more restrictive AIM VOC regulations.

Visit 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

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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	125–175 sq.ft. 12–16 sq.m.
	Tile	yes	
	Precast Panels	yes	
	Pavers	no	
	Cast-in-place	yes	
Fired Clay*	Brick	yes	100–200 sq.ft. 9–19 sq.m.
	Tile	yes	
	Terra Cotta (unglazed)	yes	
	Pavers	yes	
Marble, Travertine, Limestone	Polished	no	N/A
	Unpolished	no	N/A
Granite	Polished	yes	300–400 sq.ft. 28–37 sq.m.
	Unpolished	yes	150–225 sq.ft. 14–21 sq.m.
Sandstone	Unpolished	yes	150–225 sq.ft. 14–21 sq.m.
Slate	Unpolished	yes	200–300 sq.ft. 19–28 sq.m.
*Siloxane PD may be a more appropriate product. 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 90°F (32°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.

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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 for at least 30 to 60 seconds before penetrating. Broom out any 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. Always test.

Drying Time

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. PROSOCO® Silane 40 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 40 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 this product absolves PROSOCO from any other

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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 website at prosoco.com, for the name of the PROSOCO representative in your area.

