



Concrete Silane WB 20

PROSOCO® Concrete Silane WB 20 is a water-based, 20% silane emulsion, penetrating water repellent for concrete. This ready-to-use, high-grade silane water repellent provides resistance against the damaging effects of water intrusion, freeze-thaw cycles and chloride intrusion. When properly applied, Concrete Silane WB 20 provides exterior horizontal and vertical concrete resistance against water and waterborne contaminants. Depth of penetration is controlled by the application (loading) rate.

Unlike conventional coatings and sealers, Concrete Silane WB 20 penetrates completely and reacts to form a chemical bond within the substrate. A water repellent barrier is formed without a surface film or gloss. Treated surfaces retain their natural vapor permeability. Treatment with Concrete Silane WB 20 will not entrap damaging moisture within the concrete or masonry surface. In addition, treated surfaces retain their natural color, texture, and appearance.

TYPICAL TECHNICAL DATA

FORM	milky white emulsion
SPECIFIC GRAVITY	0.96 – 1.02
pH	9.0 – 10.0
WT/GAL	8.0 – 8.5 lbs
ACTIVE CONTENT	20%
VOC CONTENT	350 g/L maximum
FLASH POINT	>158° F (>70° C)
FREEZE POINT	32° F (0° C)
WATER VAPOR TRANSMISSION	100% retention ASTM D6490
SHELF LIFE	1 year in tightly sealed, unopened container

ADVANTAGES

- 20% silane; One component for ease of application
- Long-lasting penetration protects against moisture and chloride intrusion

- Chemical bonding for long-lasting protecting against damaging moisture
- Does not change concrete surface appearance by forming a film or glossy enhancement
- High degree of vapor transmission; Treated surfaces “breathe” – does not trap moisture
- Easy to apply. No premixing or special equipment required.
- Improved durability against freeze-thaw cycles and deicing salt stress
- Reduces efflorescence, mildew and atmospheric staining.
- Forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts
- Ideal for use on concrete surfaces subjected to vehicle traffic
- Appropriate for use on the following concrete substrates:

Architectural
Precast Panels
Glass-fiber-reinforced
Cast-in-Place
Pavers
Cast stone
Manufactured stone
- 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

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

Product Data Sheet

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REGULATORY COMPLIANCE

VOC Compliance

PROSOCO® Concrete Silane WB 20 is compliant with the US Environmental Protection Agency's 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

PREPARATION

Protect people, property, vehicles and all surfaces not set for treatment from spray, wind drift and fumes. Protect and/or divert pedestrian and auto traffic. Though Concrete Silane WB 20 has very little odor, avoid exposing building occupants to fumes. Maintain adequate ventilation when working on interior surfaces.

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.

Thoroughly clean the surface using the appropriate PROSOCO product. Remove any curing compound or previous sealer. Contaminants on the surface, including curing compounds and previous sealers, may interfere with the product's ability to penetrate the surface. Let surfaces dry thoroughly before application. Carefully inspect for dust, dirt, moisture or other contaminants that can cause the product to react and stain the material.

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 for 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.

Surface and Air Temperatures

For maximum effectiveness, surface and air temperatures should be above 40°F (4°C) and below 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.

Equipment

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

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

Keep from freezing. Store in a cool, dry place. 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 temperature 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.

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Dilution & Mixing

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

Typical Coverage Rates

Coverage varies based on surface porosity and texture. Always test.

- **Concrete:** 100–175 sq.ft. (9–16 sq.m.) per gallon

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 concrete surfaces. Apply the second coat a few minutes after the first coat has penetrated and appears dry. Concrete Silane WB 20 may have limited effectiveness on highly porous concrete surfaces. Always test.

Drying Time

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. PROSOCO® Concrete Silane WB 20 gains its water repellency properties in 5–7 days.

Cleanup

Clean tools and equipment immediately with soap and warm water. Use PROSOCO® Cleaner/Degreaser to remove dried residue from window glass within 3–5 days.

Maintenance

Remove spills or stains from surfaces treated with Concrete Silane WB 20 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 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. Field visits by PROSOCO personnel are for the purpose of making technical recommendations only. **PROSOCO is not responsible for providing job-site supervision or quality control.** Proper application is the responsibility of the applicator. Call Customer Care at 800-255-4255, or visit our website at prosoco.com, for the name of the PROSOCO representative in your area.