

PROTECTIVE TREATMENTS

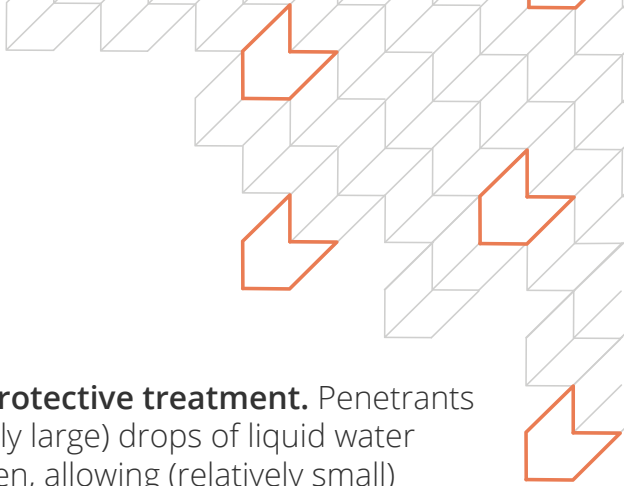


Film-formers vs. penetrants

Film-forming water repellents do just what the name implies – they seal the surface by creating a continuous film with the intent of keeping anything like moisture, contamination, and stains out of the substrate. These water repellents can be made of acrylic, polyurethane or even epoxy chemistries. However, in sealing the surface, moisture can become trapped inside the masonry and have no way of getting out; potentially leading to subflorescence, sealer blush, or even surface spalling.

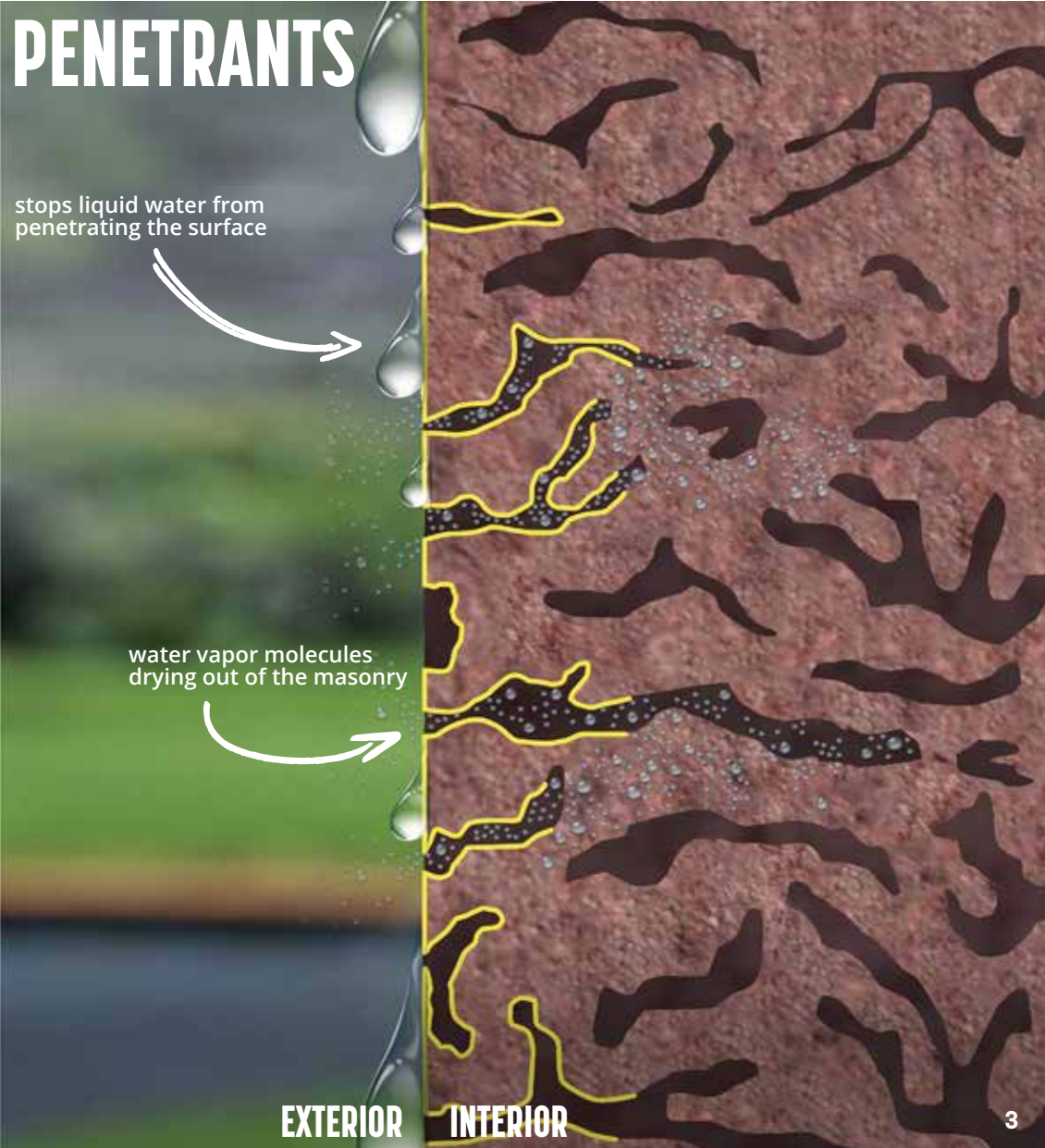
In some cases, film-formers are needed to add a sheen to or change the appearance of the surface. If selecting a film-forming protective treatment, it's important to make sure it offers some level of breathability to prevent trapped moisture.





In most cases, the better bet is to go with a penetrating protective treatment. Penetrants line the larger areas of the pore structure, preventing (relatively large) drops of liquid water from getting into the masonry, but leave the smaller areas open, allowing (relatively small) water vapor molecules to escape and the masonry to dry out.

You get all the benefits of a “sealer” by keeping out the bulk liquid water, the stains, and the contamination that you’re trying to avoid penetrating into your substrate. But you also maintain the natural permeance of that material. You’re not limiting a masonry substrate’s ability to breathe or dry when water does inevitably get in.





Protection from water

Water can ruin unprotected masonry. While masonry is durable and beautiful, simple rainwater can visibly decay and stain unprotected concrete, brick, and stone over time. Rainwater can soak into masonry. It can dissolve natural salts that recrystallize when the surface dries. The salts can build up in the masonry pores from repeated wet/dry cycles. In cold weather, water can freeze and expand inside the masonry pores. At first, the cracks and fractures from wet/dry and freeze/thaw cycles are microscopic. They might not stay that way. Combined with other natural forces, such as extreme temperatures and biological growth, this progressive decay can turn an expensive masonry investment into an eyesore and liability.

Penetrating water repellents are a good idea because they

- keep bulk water out
- reduce waterborne staining to keep your building cleaner, longer
- reduce costs by increasing time between maintenance cleanings
- allow substrate to breathe or dry out
- can enhance natural colors or maintain natural appearance
- are easy to apply





WATER REPELLENTS



Concrete Silane WB 20

This 20% silane emulsion, high-grade, penetrating water repellent provides resistance against the damaging effects of water intrusion, freeze-thaw cycles, and chloride intrusion.

PROTECTS HORIZONTAL & VERTICAL CONCRETE



SILANE EMULSION



PENETRATING



BREATHABLE



WATER-BASED



Concrete Silane WB 40

This 40% silane emulsion provides resistance against the damaging effects of water intrusion, freeze-thaw cycles, and chloride intrusion. Concrete Silane WB 40 is a ready-to-use, high-grade, penetrating water repellent.

PROTECTS HORIZONTAL & VERTICAL CONCRETE



SILANE EMULSION



PENETRATING



BREATHABLE



WATER-BASED



H40

H40 is a deep-penetrating water repellent and consolidation treatment that protects against deterioration caused by water and waterborne contaminants while strengthening weathered surfaces and soft mortar joints.

PROTECTS & STRENGTHENS BRICK, NATURAL STONE, TERRA COTTA, CONCRETE, STUCCO & CAST STONE SURFACES



SILANE W/
ETHYL SILICATE



PENETRATING



BREATHABLE



SOLVENT-BASED



H100 Consolidation Treatment

Treats badly deteriorated sandstone, limestone, cast stone, stucco, brick and terra cotta that requires consolidation and protection from water. This ethyl silicate solution works by penetrating deeply into deteriorated masonry surfaces, collecting at contact points between individual stone particles, and binding them together, while simultaneously protecting the treated surface from water-related deterioration.

PROTECTS & STRENGTHENS BRICK, NATURAL STONE, TERRA COTTA, CONCRETE, STUCCO & CAST STONE SURFACES



SILANE W/
ETHYL SILICATE



PENETRATING



BREATHABLE



SOLVENT-BASED



Interior Masonry Dustproofer

Prevents further dusting to recently exposed older interior masonry and provides water resistance to the applied surface. Interior Masonry Dustproofer dries to a clear, matte finish and retains the substrate's natural breathable properties.

PROTECTS BRICK, MORTAR, NATURAL STONE AND OTHER POROUS MASONRY FROM DUSTING



SILICONE



PENETRATING



BREATHABLE



WATER-BASED



WATER REPELLENTS



Sand Joint Stabilizer

Consolidates loose sand joints commonly employed with interlocking pavers. This durable, blended polymer protects treated paving from water penetration and related staining, and controls erosion of loose sand joints. Surfaces treated with Sand Joint Stabilizer resist weed growth and are easier to maintain.

PROTECTS CONCRETE PAVERS, CLAY PAVERS, NATURAL STONE OR DECORATIVE CONCRETE PAVING



POLYMER BLEND



PENETRATING



BREATHABLE



WATER-BASED



Silane 40

Silane 40 is a 40% active, clear, penetrating, silane water repellent that chemically reacts with the substrate to protect it against water and waterborne contaminants. Its low viscosity and small molecular size allow maximum penetration into the concrete or masonry surfaces.

PROTECTS CONCRETE AND MASONRY



SILANE



PENETRATING



BREATHABLE



SOLVENT-BASED



Silane 100

Silane 100 is a 100% active, clear, penetrating, silane water repellent that offers invisible protection against water and waterborne contaminants. The absence of a solvent carrier enables applicators to achieve up to 5 times the coverage rate normally achieved with solvent-reduced protective treatments.

PROTECTS CONCRETE AND MASONRY



SILANE



PENETRATING



BREATHABLE



"NEAT" SILANE

LASTING PROTECTION FOR NATURAL STONE



Natural Stone Treatment

Deeply penetrating water and salt barrier



MODIFIED SILOXANE



PENETRATING



SOLVENT & WATER-BASED VERSIONS

Natural Stone Treatment products provide long-lasting protection without altering the natural appearance of the substrate. Treated surfaces resist biological staining and degradation caused by fungal growth, mold and mildew. Since natural stone is calcareous, it does not contain the silica that traditional silane/siloxane water repellents need to react with. Natural Stone Treatment's modified siloxane formula reacts with calcareous substrates to provide long-lasting protection.

PROTECTS LIMESTONE, MARBLE, TRAVERTINE & OTHER ALL OTHER MASONRY



WATER REPELLENTS



Siloxane PD

It helps masonry resist cracking, spalling, staining and other damage related to water intrusion. Siloxane PD will not impair the natural breathing characteristics of treated surfaces. Siloxane PD is ready-to-use right out of the container. No on-site dilution required.

PROTECTS CONCRETE AND MOST MASONRY AND STUCCO SURFACES



SILANE/SILOXANE BLEND



PENETRATING



BREATHABLE



WATER-BASED



Siloxane WB Concentrate

This effective alternative to conventional solvent-based silanes or siloxanes penetrates and chemically bonds deep within the masonry substrate to provide long-lasting protection against water-related staining or deterioration. Siloxane WB Concentrate mixes easily with fresh water on the job site to produce a powerful water repellent.

PROTECTS DENSE OR POROUS MASONRY SURFACES



SILANE/SILOXANE BLEND



PENETRATING



BREATHABLE



WATER-BASED



SL100 Water Repellent

SL100 protects horizontal and vertical concrete and masonry surfaces against water and waterborne contaminants. The small molecular structure ensures maximum penetration and colorless protection of dense, color-sensitive surfaces.

PROTECTS GFRC, INTEGRALLY COLORED PRECAST CONCRETE AND MANY TYPES OF NATURAL STONE



SILANE



PENETRATING



BREATHABLE



"NEAT" SILANE



SL40 Water Repellent

SL40 protects horizontal and vertical concrete and masonry surfaces against water and waterborne contaminants. It's low viscosity and small molecular size allows maximum penetration into the concrete or masonry surfaces. SL40 contains a solution of silane reduced in solvents.

PROTECTS GFRC, INTEGRALLY COLORED PRECAST CONCRETE AND MANY TYPES OF NATURAL STONE



SILANE



PENETRATING



BREATHABLE



SOLVENT-BASED



SingleStep

SingleStep cures and weatherproofs new and existing concrete in one easy step. It quickly penetrates to form a water-repellent gel in the pores and a semi-glossy film on the surface. This film helps keep concrete moist until it reaches maximum hardness. The cured concrete resists damaging water penetration, salts, de-icers and acids.

PROTECTS CONCRETE



ACRYLIC-SILANE



FILM-FORMING



NON-BREATHABLE



SOLVENT & WATER-BASED VERSIONS



Protection from water + de-icing salts

Ten MILLION tons of salt are used to treat icy roads and driveways each year. While it is an effective method for melting ice and snow, the calcium chloride in de-icing salts reacts with calcium hydroxide in concrete, causing internal cracks and crumbling. This damage is further amplified by the effects of freeze-thaw cycles. PROSOCO's Saltguard is a water repellent and chloride screen that penetrates deep into the concrete to protect concrete and masonry against salt damage.





Saltguard

Deeply penetrating water and salt barrier

 **SILANE/SILOXANE BLEND**

 **PENETRATING**

 **SOLVENT & WATER-BASED VERSIONS**

Saltguard products protect horizontal and vertical surfaces from moisture intrusion and chemical attack of chloride salts, reducing rebar corrosion and surface spalling. Saltguard also provides excellent protection for retaining walls, bridge pilings and other vertical areas. In coastal areas, Saltguard protects against salt air by reducing chloride penetration.

PROTECTS CONCRETE, CONCRETE BLOCK, CONCRETE BRICK & CLAY BRICK

 **PROTECTS AGAINST SALT DAMAGE**

 **PROTECTS AGAINST WATER**

 **PROTECTS AGAINST SALT AIR**

 **HORIZONTAL OR VERTICAL**

 **BREATHABLE - WILL NOT TRAP MOISTURE**

 **WORKS ON FRESHLY PLACED CONCRETE**



Saltguard

Solvent-based water repellent and chloride screen



Saltguard WB

water-based water repellent and chloride screen



Saltguard VOC

VOC-exempt, solvent-based water repellent and chloride screen

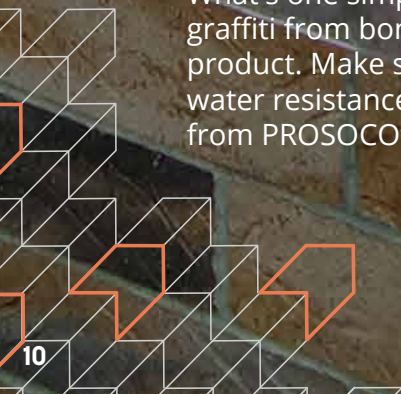


One application of a Saltguard product can protect concrete driveways, walkways, sidewalks and even vertical concrete substrates from damage for up to 10 years.



Protection from water + graffiti

What's one simple way to make graffiti removal painless? It's easy. To prevent the graffiti from bonding to the surface in the first place, protect it with an anti-graffiti product. Make sure the product is breathable and penetrating, and provides both water resistance and graffiti resistance in one for maximum protection, like one from PROSOCO's Blok-Guard & Graffiti Control line of products.





Blok-Guard & Graffiti Control

Water & graffiti repellents



The Blok-Guard & Graffiti Control family of products weatherproofs masonry surfaces and protects them from repeated graffiti attacks. Graffiti removal from treated surfaces is fast and easy using PROSOCO's Graffiti Remover. It is available in multiple water-based, solvent, and VOC-exempt solvent versions to fit the project needs. These non-sacrificial coatings hold up to repeated graffiti attacks and removal.

PROTECTS CONCRETE, BRICK, PLASTER, TERRA COTTA, LIMESTONE, AND MOST TYPES OF NATURAL STONE



PROTECTS AGAINST GRAFFITI



PROTECTS AGAINST WATER



CONTROLS MOISTURE-RELATED STAINS



HELPS CONTROL EFFLORESCENCE



BREATHABLE - WILL NOT TRAP MOISTURE



HOLDS UP TO REPEATED GRAFFITI ATTACKS



Blok-Guard & Graffiti Control WB 6



Blok-Guard & Graffiti Control 9



Blok-Guard & Graffiti Control VOC 9



Blok-Guard & Graffiti Control WB 15



Blok-Guard & Graffiti Control 15



Blok-Guard & Graffiti Control VOC 15

Product Name	Solids Content	Base/Carrier	Water Resistance	Graffiti Resistance
Blok-Guard & Graffiti Control WB 6	6%	water	5	2
Blok-Guard & Graffiti Control WB 15	15%	water	5	5
Blok-Guard & Graffiti Control 9	9%	solvent	5	3
Blok-Guard & Graffiti Control 15	15%	solvent	5	5
Blok-Guard & Graffiti Control VOC 9	9%	VOC-exempt solvent	5	4
Blok-Guard & Graffiti Control VOC 15	15%	VOC-exempt solvent	5	5

Products are ranked on a scale of 1-5, with 1 being the lowest performance (OK to use, but not preferred) and 5 being the highest performance (most effective for the task). Always test to ensure desired results.

OTHER PROSOCO GRAFFITI PROTECTION & REMOVAL OPTIONS



Sacrificial Coating SC-1

sacrificial graffiti shield



Graffiti Remover

multi-surface paint remover



SafStrip

High-strength paint & coatings remover



Heavy Duty Paint Stripper

Multi-layer paint remover



Protection from water + gloss/color enhancement

In order to provide a gloss or sheen while offering protective qualities, water repellents need to form a film on the surface. If you need a product that provides a higher sheen or gloss, look for the “non-breathable” and “film-forming” icons. If you prefer protection and color enhancement that’s more matte in appearance, look for the “breathable” and “penetrating” icons. Patios, pathways and paved outdoor areas are a big investment and these products help you keep them looking exactly how you want.



WATER REPELLENTS WITH GLOSS/COLOR ENHANCEMENT



Color Enhancer

These long-lasting, penetrating water repellents deepen and enrich the natural color of porous stone, concrete and tile. Color Enhancer VOC and Color Enhancer WB are blends of siloxane resins that enhance the color intensity of new surfaces, and revive faded, weathered colors to better than new – inside or out.

PROTECTS CLAY, CONCRETE & POROUS NATURAL STONE PAVING



SILOXANE BLEND



PENETRATING



BREATHABLE



SOLVENT & WATER-BASED VERSIONS



DuraSheen

Protects pavers and horizontal concrete with a tough, chemically resistant, glossy finish that guards against weather, stains, chemicals, food, drink and more. On pavers, it adds luster and brings out the real beauty of clay and stone pavers. Appropriate for any size installations, new or old, inside or out.

PROTECTS PAVERS & HORIZONTAL CONCRETE



ACRYLIC



FILM-FORMING



NON-BREATHABLE



SOLVENT-BASED



Gloss 'N Guard

This highly-durable, protective coating dries to a high-gloss finish which enhances the natural beauty of treated surfaces and simplifies maintenance cleaning.

PROTECTS TILE, PAVERS, TERRAZZO AND OTHER POLISHED AND UNPOLISHED MASONRY



ACRYLIC



FILM-FORMING



NON-BREATHABLE



SOLVENT-BASED



Paver Enhancer

This blend of high-quality siloxanes provides excellent water repellency and color enhancement. It penetrates and reacts with the surface to form a chemical bond, providing long-term durability, alkali resistance and superior breathability.

PROTECTS INTERLOCKING CONCRETE, FIRED CLAY, POROUS TILE AND MANY TYPES OF NATURAL STONE



SILOXANE BLEND



PENETRATING



BREATHABLE



SOLVENT-BASED



Satin Guard WB

This highly durable protective coating provides a range of aesthetics, from a satin finish to a gloss finish, and enhances the natural beauty of treated surfaces. It guards against water penetration and makes mortar smears and other soiling easily removable.

PROTECTS TILE, PAVERS, TERRAZZO, BURNISHED CONCRETE BLOCK, AND ARCHITECTURAL CUSTOM MASONRY



ACRYLIC



FILM-FORMING



BREATHABLE

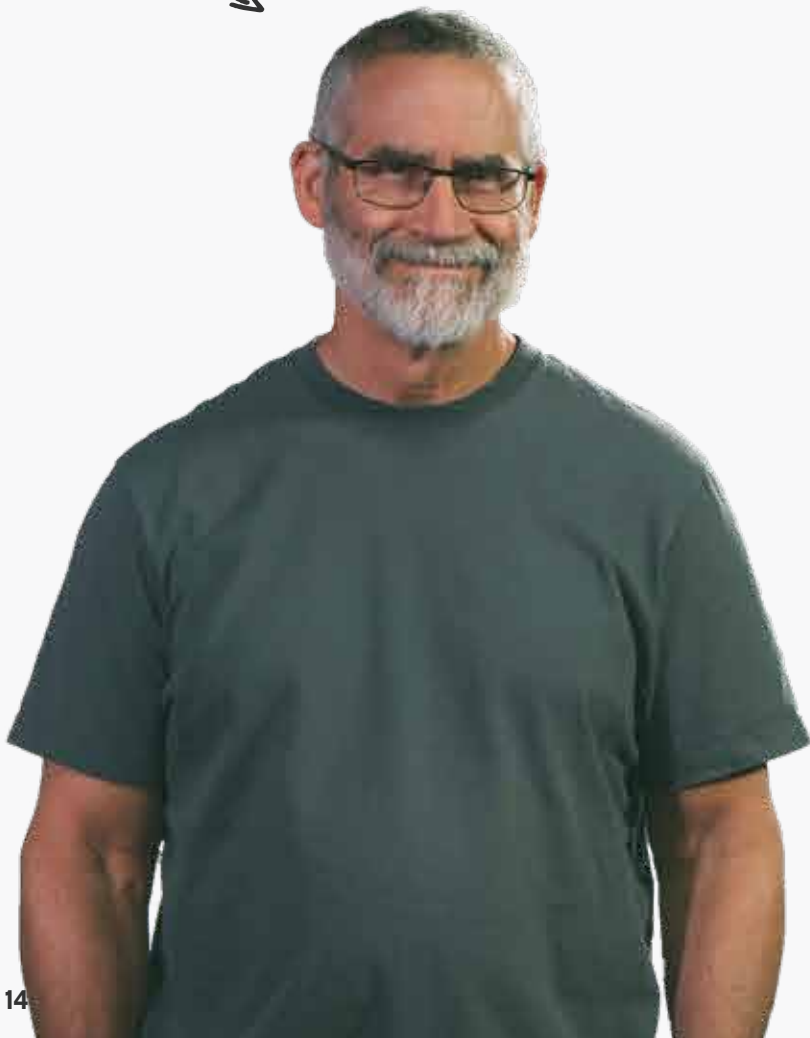


WATER-BASED

KEN

Phone Support

We're real live people who answer the phones!
Really. We're here M-F, 8a-5p, CST.



ANGELA

Laboratory Support

Customized testing means custom solutions for
your real-world conditions.



We've got great chemistry.

We strive to provide the best specialty construction chemicals and products on the market, but we also know this business is about people. That's why we dedicate our human resources and services to make your job easier. Our nationwide network of sales representatives is here to do whatever we can to help solve your job-site problems.

Customer Care 800-255-4255

CLAY

Field Support

We come to you to support your projects when and where you need us.

ALLEY

Architectural Support

We're here to assist on specifications.



Product selection



DON'T FORGET

- Masonry cleaning must be done before the application of a protective treatment. Surfaces must be clean, dry, and absorbent before applying a protective treatment.

PRODUCT	CLAY BRICK	TERRA COTTA (UNGLAZED)	MFG STONE	CONCRETE BLOCK	CONCRETE	GRANITE (UNPOLISHED)
WATER PROTECTION						
SILOXANE PD	✓	✓	✓	⊗	✓	⊗
SILOXANE WB CONCENTRATE	✓	✓	✓	✓	✓	⊗
SL100 WATER REPELLENT	✓	✓	✓	⊗	✓	✓
NATURAL STONE TREATMENT WB	✓	✓	✓	✓	✓	⊗
NATURAL STONE TREATMENT	✓	✓	✓	✓	✓	✓
NATURAL STONE TREATMENT VOC	✓	✓	✓	✓	✓	✓
SL40 WATER REPELLENT	✓	✓	✓	⊗	✓	✓
CONCRETE SILANE WB 20	⊗	⊗	✓	⊗	✓	⊗
CONCRETE SILANE WB 40	⊗	⊗	✓	⊗	✓	⊗
SILANE 100	✓	✓	✓	⊗	✓	✓
SILANE 40	✓	✓	✓	⊗	✓	✓
WATER PROTECTION + SALT PROTECTION						
SALTGUARD WB	✓	✓	✓	✓	✓	⊗
SALTGUARD	✓	✓	✓	✓	✓	✓
SALTGUARD VOC	✓	✓	✓	✓	✓	✓
WATER PROTECTION + GRAFFITI PROTECTION						
BLOK-GUARD WB 6	✓	✓	✓	✓	✓	⊗
BLOK-GUARD WB 15	✓	✓	✓	✓	✓	⊗
BLOK-GUARD 9	✓	✓	✓	✓	✓	⊗
BLOK-GUARD 15	✓	✓	✓	✓	✓	⊗
BLOK-GUARD VOC 9	✓	✓	✓	✓	✓	⊗
BLOK-GUARD VOC 15	✓	✓	✓	✓	✓	⊗
SC-1 (SACRIFICIAL COATING)	✓	✓	✓	✓	✓	✓
WATER PROTECTION + GLOSS/ENHANCEMENT						
COLOR ENHANCER WB	✓	✓	✓	✓	✓	✓
COLOR ENHANCER VOC	✓	✓	✓	✓	✓	✓
PAVER ENHANCER	✓	⊗	✓	✓	✓	⊗
GLOSS 'N GUARD	✓	✓	✓	✓	✓	✓
SATIN GUARD WB	✓	✓	✓	✓	✓	✓
DURASHEEN	✓	✓	✓	✓	✓	⊗
SINGLESTEP WB	⊗	⊗	⊗	⊗	✓	⊗
SINGLESTEP	⊗	⊗	⊗	⊗	✓	⊗

For polished stone contact Customer Care for specialized support. Always test to ensure desired results. Visit prosoco.com/voccompliance to confirm compliance with individual district or state regulations.

Product application



APPLICATION DO'S

- Test products on-site on a small area before full-scale application to ensure desired results
- Use a low-pressure pump-up sprayer, brush, or roller
- Uniformly saturate the surface
- Read product literature before starting



APPLICATION DONT'S

- Do not use high pressure
- Do not atomize the liquid
- Do not use a protective treatment below grade or in areas subject to constant hydrostatic pressure (fountains, pools, etc)

GRANITE (POLISHED)	SANDSTONE	LIMESTONE/MARBLE/TRAVERTINE (UNPOLISHED)	CHEMISTRY	VERTICAL APPLICATION	HORIZONTAL APPLICATION	AVERAGE AESTHETIC CHANGE
⊗	✓	⊗	💧 SILANE SILOXANE	✓	✓	LITTLE TO NONE
⊗	✓	⊗	💧 SILANE/SILOXANE	✓	✓	LITTLE TO NONE
✓	✓	⊗	NEAT SILANE	✓	✓	LITTLE TO NONE
⊗	✓	✓	💧 SILICONATE	✓	✓	LITTLE TO NONE
⊗	✓	✓	MODIFIED SILOXANE	✓	✓	LITTLE TO NONE
⊗	✓	✓	MODIFIED SILOXANE	✓	✓	LITTLE TO NONE
✓	✓	⊗	SILANE	✓	✓	LITTLE TO NONE
⊗	⊗	⊗	💧 SILANE EMULSION	✓	✓	LITTLE TO NONE
⊗	⊗	⊗	💧 SILANE EMULSION	✓	✓	LITTLE TO NONE
✓	✓	⊗	NEAT SILANE	✓	✓	LITTLE TO NONE
✓	✓	⊗	SILANE	✓	✓	LITTLE TO NONE
⊗	✓	⊗	💧 SILANE/SILOXANE	✓	✓	LITTLE TO NONE
⊗	✓	⊗	SILANE/SILOXANE	✓	✓	LITTLE TO NONE
⊗	✓	⊗	SILANE/SILOXANE	✓	✓	LITTLE TO NONE
⊗	✓	⊗	💧 SILICONE EMULSION	✓	⊗	LITTLE TO NONE
⊗	✓	⊗	💧 SILICONE EMULSION	✓	⊗	LITTLE TO NONE
⊗	✓	✓	SILICONE ELASTOMER	✓	⊗	SLIGHT ENHANCEMENT POSSIBLE
⊗	✓	✓	SILICONE ELASTOMER	✓	⊗	SLIGHT ENHANCEMENT POSSIBLE
⊗	✓	✓	SILICONE ELASTOMER	✓	⊗	SLIGHT ENHANCEMENT POSSIBLE
⊗	✓	✓	SILICONE ELASTOMER	✓	⊗	SLIGHT ENHANCEMENT POSSIBLE
✓	✓	✓	💧 SACRIFICIAL	✓	⊗	LITTLE TO NONE
⊗	✓	✓	💧 SILOXANE EMULSION	✓	✓	COLOR ENHANCEMENT/NO GLOSS
⊗	✓	✓	SILOXANE	✓	✓	COLOR ENHANCEMENT/NO GLOSS
⊗	✓	⊗	SILOXANE	✓	✓	COLOR ENHANCEMENT/NO GLOSS
✓	✓	✓	ACRYLIC	✓	✓	GLOSS
⊗	✓	✓	💧 ACRYLIC	✓	✓	SATIN-GLOSS
⊗	✓	⊗	ACRYLIC	✓	✓	COLOR ENHANCEMENT/GLOSS
⊗	⊗	⊗	💧 ACRYLIC SILANE	✓	✓	SEMI-GLOSS
⊗	⊗	⊗	ACRYLIC SILANE	✓	✓	SEMI-GLOSS

✓ = Use ⊗ = Don't Use 💧 = Water-Based

US Capitol, Washington, D.C.

Exterior masonry cleaned and protected with PROSOCO products



We've been around awhile.

Since 1939, PROSOCO has been involved in some of the world's most recognizable and highest-performing buildings.



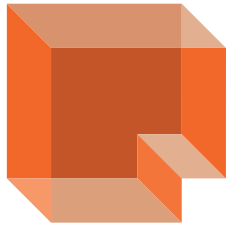
Grand Central Station, New York, NY

Exterior limestone and interior masonry cleaned with PROSOCO cleaners

R.W. Kern Center, Hampshire College, Amherst, MA
Building envelope protected, concrete flooring finished and exterior masonry protected with PROSOCO products



Wrigley Building, Chicago, IL
Exterior terra cotta cleaned with PROSOCO cleaners and facade secured with PROSOCO anchors



PROSOCO

You. Us. The project.

