



Armor SX5000 PRO-Grade Solvent-Based Silane Siloxane Water Repellent Sealer

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For Professional Use

PRODUCT DESCRIPTION

The Armor SX5000 is a professional-grade solvent-based Silane-Siloxane water repellent sealer that penetrates deep into the concrete surface where it chemically reacts to form a hydrophobic barrier within the pores. Surfaces sealed with the Armor SX5000 are more resistant to the damaging effects of water absorption, such as cracking, spalling, pitting, freeze thaw and salt damage, staining, mold and mildew, and efflorescence. It can be applied to interior and exterior, vertical and horizontal unsealed surfaces.

BENEFITS/FEATURES

- ◆ Will maintain the natural, unsealed look and feel of the substrate
- ◆ Will provide up to 7-10 years of life before the need for a recoat
- ◆ Breathable, won't trap subsurface moisture
- ◆ Will reduce deterioration caused by water absorption such as cracking, spalling, pitting, staining
- ◆ Will reduce the formation of mold and mildew
- ◆ Will reduce damage caused by water absorption from the use of de-icing salts and from freeze thaw cycles
- ◆ Will reduce the movement of moisture through the concrete pores

SUGGESTED APPLICATIONS

- ◆ Concrete and Concrete Pavers
- ◆ Brick and Masonry
- ◆ Bluestone, Flagstone, Slate
- ◆ Natural Stone
- ◆ Driveways, walkways, patios, etc.
- ◆ Bridge decks, parking lots, sidewalks, etc.

TECHNICAL INFORMATION

Solids.....	12%	Wet Appearance.....	Clear
Drying Time.....	1-2 hours	Dry Appearance.....	Invisible
Re-Coat Time.....	0-24 hours	VOC Content.....	< 250 g/L
Foot Traffic.....	8-12 hours		
Wheel Traffic.....	24 - 48 hours		
Application Temp.....	55°F - 85°F		

COVERAGE

Porous Surfaces: Up to 175 FT²/gallon in one coat.
Smooth Surfaces (once properly prepped): Up to 200-225 FT²/gallon in one coat.

Coverage will vary depending on porosity, surface condition, application method, and the amount of material applied by the applicator. The above coverage rates are estimates and will vary. Two coats are suggested for even coverage and appearance.

COMPLIANCES

- ◆ Dried coating is USDA accepted

SHELF LIFE

When properly sealed and stored, the shelf life of the Armor SX5000 is up to 1 year.

PACKAGING

The Armor SX5000 is available in a 16 OZ Sample, 1 Gallon Bottle, 5 Gallon Pail, and 55 Gallon Drum.

APPLICATION INSTRUCTIONS

Surface Preparation:

The Armor SX5000 should be applied to a completely clean and dry surface. If the surface was cleaned with water or pressure washed prior to application, allow the surface to dry for at least 24 hours before sealing. While the surface may appear dry and feel dry to touch, water below the surface trapped in the pores can cause the same issues. While pressure washing the surface is typically sufficient, spot treatment may be necessary for deep or older stains. If the surface is smooth troweled, or does not easily accept water, acid etching may be required prior to applying sealer. It is always suggested to apply the Armor SX5000 to a test area to verify absorption, coverage, compatibility, and project suitability.

The Armor SX5000 is designed specifically for unsealed concrete and masonry surfaces. It can also be applied over surfaces previously sealed with a silane-siloxane sealer.

Application:

A solvent resistant commercial pump sprayer is recommended to achieve the best coverage and results. Be sure the psi is no greater than 20. Use a .3-.5 GPM adjustable cone tip.

Apply the first coat of Armor SX5000, ensuring the entire surface is evenly saturated. Wait at least 10-15 minutes, then apply the second coat. Do not flood the surface or allow puddles to form, this will result in over application and the formation of dark spots on the surface. Less porous surfaces, such as bluestone, flagstone, and slate, may only require one coat.

Substrates sealed with Armor SX5000 may be coated with silicone emulsion paints and many oil based paints once the surface has had 72 hours to dry. Testing is always necessary and recommended to assure proper adhesion. Adhesion may be improved if the surface is pressure washed and allowed to dry prior to application. Armor SX5000 is not a paint primer. Adhesion of cementitious coatings, stucco, plaster, etc., may be adversely affected. These types of substrate treatments should be installed and allowed to fully cure before applying Armor SX5000. Always test to verify compatibility.

Time of Day

The temperature of the air and surface must be 55-85 degrees F during application. If freezing conditions exist prior to application, it is highly recommended that the substrate be allowed to fully thaw. Should this recommendation not be followed, the product may not yield adequate protective properties.

Once applied, the surface should be kept dry for at least 24 hours.

Clean-Up

Use warm water and soap. Dispose of containers in accordance with local and federal regulations.

Product Removal

Armor SX5000 penetrates deep into the surface. Removal is not recommended.

PRECAUTIONS AND LIMITATIONS

- ◆ Product is designed for fully cured concrete. Concrete must be a minimum of 28 days old before applying product.
- ◆ Do not apply over floor adhesives, paints, coatings, dyes, powder release dyes, acid stain, sealers, etc. This product is designed for unsealed, uncolored, and untreated surfaces ONLY.
- ◆ When using a cleaner, ensure the cleaner has been completely removed from the surface, and ensure the PH of the concrete has not been changed. Many cleaners will leave a residue, and can alter the PH of the concrete. Application on a high PH surface will result in the formation of dark spots.
- ◆ When applying around a pool or pool deck, or any other area where contaminated water or liquids come into contact with the substrate (such as salt water, chlorinated water, cleaning chemicals, chemicals, oils, gas, etc.) it is important to make sure that there is absolutely nothing on the surface or in the pores of the substrate during the time of application, and while curing.
- ◆ Coverage rates depend upon many conditions including application method, surface porosity, and applicator.
- ◆ Sealer is not resistant to brake fluid, gasoline, and many other similar products.
- ◆ Sealer will not stop surface stains as the surface of the substrate is fully exposed.
- ◆ Do not dilute or thin sealer with any products.
- ◆ If the substrate is not properly cleaned or prepped it will result in the formation of dark spots and discoloration. Dark spots are a clear indication of improper surface preparation or improper application, or a combination of both.
- ◆ Do not over apply. Over application can result in the formation of dark spots on the surface. Other causes of dark spots include: the presence of water or contaminants on the surface or in the pores, the existence of a cleaner, sealer, paint, coating, etc. on the surface or in the pores, the premature introduction of water or other liquids before the product is fully cured, a chemical reaction to something present on or in the substrate, and other causes.
- ◆ Store product in an area where the temperature is between 55-80 degrees F, and not in direct sunlight.
- ◆ If applying sealer to pavers less than one year old, verify with paver manufacturer that pavers are able to be sealed. Sealing before suggested guidelines can result in sealer failure.
- ◆ Properly protect and cover any areas not intended or suggested to be sealed during application.
- ◆ When applying, odors are strong. Area should be properly ventilated during the time of application, and for at least 7 days after application, to allow for the solvents to fully release and the odors to dissipate.
- ◆ HVAC ducts should be blocked to avoid distribution of solvents and odors. Extinguish any pilot lights or other sources of ignition prior to starting.
- ◆ Foundation Armor also offers no guarantee, warranty or other claims to the success or results of a job or project.
- ◆ Surface water beading will not occur on all surfaces. While some surfaces may experience an instantaneous bead, others won't experience a surface water bead at all. Surface water bead is not a sealer benefit, and is not an indicator that the sealer is or isn't working.
- ◆ In all cases, refer to the Safety Data Sheet prior to application for complete health and safety information. Do not swallow, avoid direct contact with skin, avoid inhalation, keep out of reach of children and pets. Proper personal protective equipment should be worn when applying this product.
- ◆ Silane-Siloxane sealers can't stop damage and deterioration caused by the use of harsh de-icing salts. While they will help to reduce damage caused by the absorption of water created by the use of de-icing salts, they can't stop de-icing salts from eating away at the substrate because the surface of the substrate is still fully exposed. If you use de-icing salts we advise against the use of aggressive de-icing salts such as magnesium chloride. Concrete and masonry friendly de-icing salts are suggested.
- ◆ The applicator is responsible for suitability of application, and the results of the application. We suggest applying to a test area first to verify compatibility, absorption, coverage rate, and project suitability. Applicator is also responsible for ensuring product meets local VOC regulations, and any and all other regulations that may apply.
- ◆ Product is HAZMAT and is not returnable. Please consider purchasing a 16 ounce sample to test product before purchasing larger quantities.