



Armor SX5000 DOT Approved Silane Siloxane Water Repellent Sealer

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For Professional Use

PRODUCT DESCRIPTION

The Armor SX5000 is a Department of Transportation approved 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

- ◆ Contains up to 5X more active ingredients than similar products
- ◆ 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, low VOC.
- ◆ Will reduce deterioration caused by water absorption such as cracking, spalling, pitting, staining
- ◆ Will reduce the formation of mold and mildew
- ◆ Will reduce freeze-thaw and salt damage
- ◆ Will reduce the movement of moisture through the concrete pores
- ◆ Is approved by the Department of Transportation as a water repellent sealer in several states

SUGGESTED APPLICATIONS

- ◆ Poured, broom finished, and troweled concrete.
- ◆ Pavers and brick.
- ◆ Aggregate and natural stone.
- ◆ Driveways, walkways, and stairs.
- ◆ Pool decks and patios.
- ◆ Garage, warehouse, and basement floors and walls.
- ◆ Car ports, pole barns, retail and restaurant floors.

TECHNICAL INFORMATION

Solids.....	+/- 40%	Wet Appearance.....	Clear
Drying Time.....	1-2 hours	Dry Appearance.....	Invisible
Re-Coat Time.....	2-24 hours	VOC Content.....	< 350 g/L
Foot Traffic.....	12-24 hours	Blush Resistance.....	Excellent
Wheel Traffic.....	24 - 48 hours	Alkalinity Resistance.....	Excellent
Application Temp.....	45°F - 85°F	Concrete Adhesion.....	Excellent
Specific Gravity.....	0.909	Freeze Point.....	No Data
WT/GAL	7.15 LBS	Flash Point.....	107°F (42°C) ASTM D 3278

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

- ◆ NCHRP 244 Report, Series II:
 - ◆ Reduction in Water Absorption: +/- 81-95%
 - ◆ Reduction in chloride ion content: +/- 84%
 - ◆ Reduction in water vapor transmission: +/- 100%
- ◆ Dried coating is USDA accepted

APPLICATION INSTRUCTIONS

SURFACE PREPARATION: Prior to surface preparation, protect people, property, automobiles, plants and any other non-masonry surfaces and objects from the material, wind drift, and splash, residue, and fumes of the material. Proper surface preparation is highly important. Use the proper cleaning detergent for the substrate at hand. It is recommended that Armor SX5000 be applied on a clean, dry and absorbent surface. Please note that excessive moisture inhibits good penetration, which can reduce the life and performance of the coating. Newly constructed and repointed substrates should be fully cleaned and cured 28 days prior to application. Always test for compatibility before applying. Please test using the following application instructions. It is important to let the test area dry completely before final inspection and approval.

The temperature of the air and surface must be 45-85 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.

Proper equipment should be used when applying Armor SX5000. A low pressure solvent/acetone-resistant sprayer with Viton seals should be used to apply. Be sure the psi is no greater than 20. Set the sprayer to achieve a good, wet stream, avoiding atomization of the product.

To allow for proper absorption and reaction, the Armor SX5000 should only be applied in the early evening (around 5 PM or later) when air and surface temperatures are declining, and when the sun is no longer positioned over the surface. It should only be applied to unsealed concrete, brick, pavers, and natural stone.

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

APPLICATION:

Using a sprayer, apply first coat of Armor SX5000, ensuring the entire surface is evenly saturated. Broom out puddles until surface is penetrated. Second coat can be applied "wet-on-wet", or when surface appears dry.

Substrates sealed with Armor SX5000 may be coated with silicone emulsion paints and many oil based paints as well although 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
To allow for proper absorption and reaction, the Armor SX5000 should only be applied in the early evening (around 5 PM or later) when air and surface temperatures are declining, and when the sun is no longer positioned over the surface.

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. Do not apply this product over a surface recently sealed with a water repellent sealer, or previously sealed with a film-forming sealer or coating.

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.

CLEAN-UP

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

PRODUCT REMOVAL

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

PRECAUTIONS AND LIMITATIONS

- ◆ Apply sealer with plenty of ventilation. Should be stored in accordance with local laws.
- ◆ It is recommended to store this product in an area where the temperature is between 45-85 degrees F.
- ◆ Do not allow sealer to be subject to any form of rain or moisture for at least 24 hours before and after application.
- ◆ Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc. Porous substrates will require more material.
- ◆ Sealer will not keep water out of cracks, defects, or open joints.
- ◆ Sealer should never be thinned or mixed with any form of liquid.
- ◆ Do not apply this product in the morning or mid-day.
- ◆ Do not apply this product to surfaces that currently have or previously had a film-building sealer/coating on the surface.
- ◆ Do not apply this product to surfaces that currently have a water repellent sealer on the surface.
- ◆ It is recommended to wear the proper personal protective equipment when applying this product.
- ◆ Properly protect and cover any areas not intended or suggested to be sealed during application.
- ◆ 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 beading is not a sealer benefit.
- ◆ 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.

CONTACT

Still have questions? Contact a Foundation Armor Technician at 866-306-0246.

SHELF LIFE

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