



# Armor SX5000 WB Approved Silane Siloxane Water Repellent Sealer

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## PRODUCT DESCRIPTION

The Armor SX5000 WB is a high solids, water 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 WB 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 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 10 years of life before the need for a recoat
- ◆ Breathable, low odor.
- ◆ 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.....	+/- 20%	Wet Appearance.....	Clear
Drying Time.....	1-2 hours	Dry Appearance.....	Invisible
Re-Coat Time.....	Wet on Wet	VOC Content.....	Low VOC
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

## COVERAGE

Porous Substrates	125-175 ft <sup>2</sup> /gallon in one coat.
Dense, Trowel Finished Substrates	250-350 ft <sup>2</sup> /gallon in one coat.

The average coverage rate is 250 FT<sup>2</sup>/gallon in one coat. Coverage rates will vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

## 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

## SHELF LIFE

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

## PACKAGING

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

## 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 WB 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 WB. A brush, roller, or low pressure sprayer should be used to apply. If using a sprayer, be sure the psi is no greater than 20. Set the sprayer to achieve a good, wet stream, avoiding atomization of the product.

### APPLICATION:

Using a pump sprayer or roller, apply first coat of Armor SX5000 WB, ensuring the entire surface is evenly saturated. Broom out puddles until surface is penetrated. Second coat should be applied "wet-on-wet".

Substrates sealed with Armor SX5000 WB 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 WB 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 WB. Always test to verify compatibility.

- Allow fresh concrete at least four weeks, preferably six weeks, to set before applying sealer.
- Remove coarse particles and dust from new, unsoiled surfaces with a brush or compressed air. Use super heated steam to clean surfaces that are heavily soiled with oil, abraded rubber, etc. prior to treatment.
- Only seal concrete that has a uniformly dry surface with no damp patches. Do not apply if is expected to rain within 24 hours of applying sealer.
- The sealed substrate should be protected from weathering conditions for at least 24 hours after application. A neutral pH surface may need several days to achieve full water repellency.

## CLEAN-UP

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

## PRODUCT REMOVAL

Armor SX5000 WB 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 after application.
- ◆ Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- ◆ Sealer was designed for a water repellent for porous surfaces. Not intended as a decorative topcoat.
- ◆ Sealer will not keep water out of cracks, defects, or open joints.
- ◆ Sealer should never be thinned or mixed with any form of liquid.

## CONTACT

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