

# WATER BLOCK SB 100

## Concrete & Masonry Water Repellent/Impregnating Agent

### Product Description

Water Block SB 100 is a 100% active solvent-based silane water repellent and impregnating agent for porous masonry surfaces such as concrete, block, brick and unglazed tile. Water Block SB 100 will penetrate and chemically bond deep within the substrate to provide long lasting protection against deterioration or staining due to water conditions. Water Block SB 100 will not impair the natural breathing characteristics of treated substrates, nor will it produce a film. Water Block SB 100 will help concrete and masonry surfaces to resist common issues such as cracking, efflorescence, spalling, staining, and other damages caused by intrusion of water. It also helps protect the surface from damaging effects of water intrusion, acid rain, deicing chemicals and freeze/thaw exposure.

### Benefits & Features

- Greatly delays chloride and water absorption by concrete
- Reduces loss of concrete due to freeze/thaw action in the presence of de-icing salt
- Highly resistant to alkalis
- Low volatility and good depth of penetration

### Recommended Applications

Water Block SB 100 is recommended as a water-repellent impregnating agent and primer for normal and reinforced concrete for bridges, roads, and buildings. Also great on pool decks, patios, driveways, courtyards, and many other concrete applications.

### Technical Information

Solids	100% (active)	Wet Appearance	Clear to Slightly Hazy
Dry Time - Tack Free	1 - 2 hours	Dry Appearance	Clear and Invisible
Dry Time - Foot Traffic	8 - 12 hours	VOC Content	228 grams/Liter
Dry Time - Heavy Traffic	24 - 48 hours	Blush Resistance	Excellent
Re-Coat Time Window	See Instructions	Alkalinity Resistance	Excellent
Application Temp	50°F - 85°F	Concrete Adhesion	Excellent

\*\*\*Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

### Specifications/Compliances

Dried coating is USDA accepted. NCHRP 244 report, Series II; Reduction in Water Absorption - 81%, Reduction in chloride ion content - 84%, and Water vapor transmission - 100%

### Approximate Coverage Rates

Concrete Surfaces (bridges, pre-cast, pavers, cast-in-place, brick, tile)	250 - 500 ft <sup>2</sup>
Fired Clay Surfaces (brick, tile, terra cotta, pavers)	250 - 400 ft <sup>2</sup>

\*Coverage rates may vary depending upon surface porosity, texture and application method. Excessive build up should be avoided.

### Shelf Life

Shelf life of up to one year in its original, unopened container.

### Packaging

Available in 1 gallon, 5 gallon and 55 gallon containers.

#### ORRVILLE

133 North Kohler Road  
Orrville, Ohio 44667  
(330) 682-5678

#### CLEVELAND

7941 Granger Road  
Cleveland, Ohio 44125  
(216) 573-0770

#### COLUMBUS

690 Harrison Drive  
Columbus, Ohio 43204  
(614) 253-3326



www.eco-cretesupply.com

## **Instructions for Use**

**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. Protecting and diverting pedestrians and automobile traffic is also recommended.

Proper surface preparation is highly important. Use the proper cleaning detergent for the substrate at hand. It is recommended that Water Block SB 100 be applied on a clean, visibly dry and absorbent surface, although it may be ok to apply on a slightly damp surface as well. 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.

The temperatures of the air and the surface are very pertinent aspects of applying any coating. The minimum temperature of the air and surface must be at least 40° F during application, and for at least 8 hours after. 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. Also, air and surface temperatures should never exceed 85°F.

Proper equipment should be used when applying Water Block SB 100. 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. Be sure that any container used for mixing or material handling is clean, free of any debris, and uncontaminated.

**Application:** Before applying material, please read full technical data sheet for proper preparation, application and to be sure to follow all safety measures guide lined in this report. Always test any substrate before overall application to ensure desired results. Please test using the following application instructions. Also, let the test area dry completely before final inspection and approval.

**Horizontal Application Instructions:** By roller or sprayer, apply Water Block SB 100 at a rate of 250-400 square feet per gallon depending upon surface type and porosity. Broom out puddles until surface is penetrated. Re-apply a second coat. Less material may be sufficient for a second coat. Once again, broom out any puddles until material has penetrated. This is a "wet-on-wet" application. Coated surfaces should dry to touch in approximately one hour. The coated substrate should be protected from weathering conditions for at least 8 hours after application. A neutral pH surface may need several days to achieve full water repellency.

**Vertical Application Instructions:** For best results, apply Water Block SB 100 "wet-on-wet" at a rate of 250-400 square feet per gallon depending upon surface type and porosity, to a dry and absorbent surface. When using a sprayer, saturate from the bottom up while applying enough material for a 4"-8" rundown below the spray contact point. Let the first application penetrate the substrate for at least 5-10 minutes. Re-apply the material; less material will be needed for the second application. When using a brush or roller, saturate the surface uniformly, allowing Water Block SB 100 to penetrate for 5-10 minutes. Brush out heavy runs and drips that show signs of no penetration. The second coat is recommended for maximum protection.

Cleanup tools, equipment, and any surface or object affected by overspray with xylene or soap and warm water

Substrates coated with Water Block SB 100 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 maybe improved if the surface is pressure washed and allowed to dry prior to application. Water Block SB 100 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 Water Block SB 100. Always test to verify compatibility.

Allow fresh concrete at least four weeks, preferably six weeks, to set before impregnating it

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 impregnate concrete that has a uniformly dry surface with no damp patches. Should it suddenly start to rain, stop treatment and cover the impregnating areas

**Please Note:** It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. If applying spray method, extended coverage rates may be achieved, but be aware that less material will be applied and inadequate film formation or performance expectations may be limited. CAUTION: Water Block SB 100 is highly flammable. Use extreme caution along with plenty ventilation. An approved respirator is required. Avoid ignition sources, flame, etc.

## **Clean-Up**

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

## **Product Removal**

Coating deeply penetrates surface. Removal is not recommended.

## **Precautions & Limitations**

- Water Block SB 100 is highly flammable and should be stored in accordance with local laws
- It is recommended to store this product in an area where the temperature is between 50° and 80°F
- Do not allow Water Block SB 100 to be subject to any form of rain or moisture for 18-24 hours after application
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- Water Block SB 100 was designed for a water repellent for porous surfaces. Not intended as a decorative topcoat
- Water Block SB 100 will not keep water out of cracks, defects, or open joints
- Water Block SB 100 should never be thinned or mixed with any form liquid or solvent
- Please know that it may take up to 72 hours for Water Block SB 100 to obtain its water repellency properties
- Water Block SB 100 may slightly darken the surface of many new and existing concrete slabs. Test prior to use.

## **Special Notes**

Please consult Safety Data Sheet (SDS) and read warranty information prior to use. This information can be requested by contacting customer service at 330-682-5678. For Professional Use Only! Do Not Dilute!

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