

SURFKOAT

Surface Coatings, Inc.
Manufacturers of Industrial and Decorative Concrete Materials

ENHANCER SHIELD SB

solvent based silicone water repellent



WATER REPELLENTS

Before



Enhanced



ENHANCER SHIELD SB is an active solvent-based silicone water repellent and impregnating agent for porous masonry surfaces such as concrete, block, brick, and unglazed tile. CLEAR application that enhances colored and stained concrete, decorative stones, pavers and cementitious overlays with no film build! ENHANCER SHIELD SB penetrates and chemically bonds deep within the substrate to provide long lasting protection against deterioration or staining due to water conditions. ENHANCER SHIELD SB will not impair the natural breathing characteristics of treated substrates, nor will it produce a film. ENHANCER SHIELD SB will help concrete and masonry surfaces to resist common issues such as cracking, efflorescence, spalling, staining, and other damages caused by intrusion of water. Will not change the feel of the surface, is not slick, and is easily maintained.

Key Features & Typical Benefits

- Enhances substrates contrasting colors, providing a matte finish
- Deeply penetrating porous surfaces, it provides superior water repellency, while allowing surface to breathe.
- Provides excellent resistance to biological growth.
- Superior efflorescence and strong alkali resistance compared to common solvent based acrylic sealers.
- Contains low VOC content making this product legal for sale to most regions of the US and Canada.

Recommended Applications

Effective on unsealed applications such as...

- Stamped Concrete
- Broom Finish Concrete
- Smooth Trowel Concrete
- Exposed Aggregate Concrete
- Masonry Block
- Fired Clay Brick
- Concrete Pavers
- Concrete walls
- Natural & Artificial Stone



Specifications / Compliances

- Dried coating is USDA accepted.
- Meets US EPA AIM VOC content limit of 600 g/L for Waterproofing Sealers and Treatments.
- Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.

Typical Properties & Technical Information

PROPERTY	VALUE
Dry Time	30 minutes - 1 hour
Dry Time - Foot Traffic	4 hours - 8 hours
Dry Time - Heavy Traffic	24 hours - 48 hours
Re-Coat Time Window	See instructions
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	< 350 grams/Liter
Appearance - Wet	Clear
Appearance - Dry	Clear and Invisible

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Enhancer Shield SB

Application Instructions

SURFACE PREP: 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. Surfaces must be free from oils, dirt, dust, grease, curing compounds, other coatings, efflorescence, and laitance before applying to the visibly dry and absorbent surface. Please note that excessive moisture inhibits good penetration, which can reduce the life and performance of the coating.

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 80°F.

MIXING: Stir ENHANCER SHIELD SB well before using. DO NOT THIN.

COVERAGE RATE: *First Coat* : 100 - 300 ft² per gallon*

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

APPLICATION: Proper equipment should be used when applying ENHANCER SHIELD SB. 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. 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: Apply ENHANCER SHIELD SB at a rate of 100-300 sq. ft. per gallon depending upon surface type and porosity. Broom out puddles until surface is penetrated. Re-apply a second coat once sheen from first coat has dissipated. 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 24 hours after application. Water and oil repellency should develop within 24 hours. A neutral pH surface may need several days to achieve full water repellency.

VERTICAL APPLICATION INSTRUCTIONS: For best results, apply ENHANCER SHIELD SB "wet-on-wet" at a rate of 100-300 sq. ft. 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 ENHANCER SHIELD SB to penetrate for 5-10 minutes. Brush out heavy runs and drips that show signs of no penetration. The second coat is needed for maximum protection.

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 by spray method, extended coverage rates may be achieved, but be aware that less material will be applied and performance expectations may be limited.

Precautions and Limitations

- This product will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- Do not allow this product to be subjected to any form of rain or moisture for 24 hours after application.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This product should be applied as two thin coats, not one heavy coat.
- This product was designed for a water repellent for porous surfaces. Not intended as a glossy top coat.
- Please know that it may take up to 72 hours for this product to obtain its full water repellency properties.
- It is not recommended to thin this product.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Adhesion of cementitious coatings, stucco, plaster, etc., may be adversely affected.
- This product will not keep water out of cracks, defects, or open joints.
- This product should not change the slip coefficient of the surface. Test prior to use.

CLEAN-UP: Use Xylene. Dispose of containers in accordance with local, state and federal regulations.

PRODUCT REMOVAL: Coating deeply penetrates surface. Removal is not recommended.

SHELF LIFE: Up to one year from manufacture date in its original, unopened container stored at room temperature.

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

Always read all technical information, label and SDS prior to use. This information can be found online or by calling customer service at the number below.