



CONSEAL™
CONCRETE SEALANTS INC.

ConBlock™ SH

SODIUM-BASED SURFACE HARDENER

Don't Just Seal It. ConSeal It!

Waterborne Penetrating, Reactive Concrete Sealer, Hardener, and Dust-proofer



Certified to
NSF/ANSI/CAN 61



PRODUCT DESCRIPTION

ConBlock SH is a non-toxic, waterborne penetrating concrete sealer made from a proprietary blend of inorganic materials that reacts with Portland Cement Concrete to create crystalline formations within the concrete pore structure. Applying ConBlock SH improves the durability, chemical resistance, and hardness, as well as reducing the porosity of concrete. ConBlock SH is used regularly on highways, bridge decks, and other concrete exposed to freeze-thaw and deicers. Additionally, ConBlock SH reduces "dusting" on concrete surfaces which is beneficial in preparing the surface for the application of coatings and adhesives. ConBlock SH will not change the color of your concrete and can be polished after treatment to create a glossy sheen. Since ConBlock SH is a penetrating sealer and not a coating, the surface characteristics are virtually unaffected.

FEATURES AND BENEFITS

- Reduces dusting
- Reduces porosity / absorbency
- Improves freeze-thaw scaling protection
- Increases chemical resistance
- Improves abrasion resistance
- NSF/ANSI/CAN 61 certified for use in drinking water structures

PHYSICAL PROPERTIES

Color: Clear to slightly hazy liquid
Coverage: 125-200 square feet/gallon
 Odor: None to slightly soapy
 Density: 9.15 lbs/gal
 pH: 11.5 to 12
 VOC: 0 g/l

PHYSICAL PROPERTIES

Scaling Resistance

ASTM C672 *Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals.*

After 50 cycles, A block treated with **two coats** of ConBlock SH showed minimal scaling compared to the control, which showed severe scaling.

Absorption

ASTM C642 *Standard Test Method for Density, Absorption, and Voids in Concrete.* A 16% reduction in absorption after 7 days as compared to the control.

Crack Sealing

ODOT SS 841 *Proof of Crack Sealing Test (Modified AASHTO T259).* ConBlock SH passed with a rating of 8.8 with an average crack width of 0.002" (0.05mm).

Abrasion Resistance

ASTM D4060 *Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.* A reduction in mass loss of 53% after 1,000 cycles as compared to the control.

DO NOT SUBJECT CONBLOCK SH TO FREEZING TEMPERATURES BEFORE USE.

DIRECTIONS FOR USE

Surface Preparation: The concrete must be clean and free from dust, dirt, heavy wax, thick grease, recently applied surface sealer, acrylic paint and debris before application of ConBlock SH. Inspect surface for soundness. Repair or remove any surface irregularities and loose concrete, using an approved crack filling method on static hairline cracks. When the surface is clean, sound and dry, proceed with coating application.

Mixing: Stir thoroughly prior to use. **DO NOT THIN OR DILUTE CONBLOCK SH.**

Application: Apply ConBlock SH at an approximate rate of 125-200 square feet per gallon, depending upon the concrete's porosity. Low pressure spray equipment such as a hand pump garden sprayer works well for small to medium size areas. For larger areas, airless spray equipment is recommended. Do not allow ConBlock SH to pond or puddle, as a white residue will likely form on the surface of the concrete. On horizontal surfaces, move the excess material from the low spots to the high spots with a squeegee. A broom, paint roller or microfiber pad can be used to spread out areas that puddle to prevent over application.

Curing: The concrete will normally be dry in 4 hours and can be open to use. Do not allow the concrete to get wet for 18 hours after application for optimum performance. Full cure will take up to 28 days.

LIMITED WARRANTY

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the **users' responsibility** to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

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