

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



PRODUCT APPLICATIONS

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.

NSF/ANSI/CAN 61 CERTIFIED FOR USE IN DRINKING WATER STRUCTURES

FEATURES & 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 & CHEMICAL COMPOSITION

Description	ConBlock SH
Drying Time	<1 hour, serviceable in 4 hours
VOC Content	0 g/L
Solids Content	12–15%
Coverage	125–200 sq. ft. per gallon
Shelf Life	One-year, unopened container
pH	11.5–12.0
Density	9.15 lbs/gal

PERFORMANCE 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 Hardened 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: Dry in less than one hour, serviceable in four hours, and cures in 18–24 hours. Do not allow to get wet for 18 hours after application. Full cure may take 2–4 weeks.

LIMITED WARRANTY

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