

High Performance Concrete Sealer for Sealing, Dustproofing, and Hardening



PRODUCT APPLICATIONS

ConBlock HP is a high-performance penetrating concrete sealer made from a propriety blend of inorganic materials that react with Portland Cement Concrete to create crystalline formation within the concrete pore structure. ConBlock HP is used to improve the durability, chemical resistance and hardness, as well as reduce the porosity of poured concrete. There is no scrubbing, washing or flushing needed when applying ConBlock HP to concrete flooring applications. Concrete HP will produce a hardened concrete surface with a satin gloss. The gloss may improve over time with washing and buffing operations. The concrete will remain breathable while resisting the penetration of liquids or moisture. Concrete floors will not sweat, making ConBlock HP suitable for applications where a laminated floor will be applied.

FEATURES & BENEFITS

- Water repellent for concrete/masonry.
- Reduces porosity/absorbency.
- Improves freeze-thaw scaling protection.
- Reduces efflorescence.
- Improves resistance to deicing salts.
- Will not contribute to alkali-silica reactivity (ASR).

PHYSICAL PROPERTIES & CHEMICAL COMPOSITION

Description	ConBlock HP
Drying Time	<1 hour, serviceable in 4 hours
VOC Content	0 g/L
Solids Content	6–8%
Coverage	125–200 sq. ft. per gallon
Shelf Life	One-year, unopened container
pH	11.0–13.0
Density	8.5–9.0 lbs/gal

PERFORMANCE PROPERTIES

Hardness	ASTM C805 Standard Test Method for Rebound Number of Hardened Concrete.	ConBlock HP test results show a 6.5% increase in hardness compared to the control.
Compressive Strength	ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.	Samples treated with ConBlock HP showed a 13–19% increase in compressive strength compared to control.
Permeable Void Space	ASTM C642 Standard Test Method for Density, Absorption, and Voids in Hardened Concrete.	A 16.5% reduction in permeable void space compared to the control.
Abrasion Resistance	ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.	A reduction in mass loss of 42% after 1,000 cycles as compared to the control.

DO NOT SUBJECT CONBLOCK HP 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 HP. 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 HP.**

Application: Apply ConBlock HP 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 HP 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.

Note: Wastewater from scrubbing in non-hazardous.

LIMITED WARRANTY

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