



## Deep Seal

### Product Data Sheet

CHEMICAL HARDENER, DENSIFIER, SOLUBLE CHLORIDE REDUCER

#### BENEFITS:

- Key to concrete preparation for containment of water vapor emissions
- Leaves concrete breathable
- May be used as a curing and sealing agent that reduces “green concrete” window
- Purges and prevents re-entry of soluble chlorides
- Water based, low VOC’s
- Interior and exterior applications

**DESCRIPTION:** VanHearron, Inc.’s Deep Seal is a water-based sealer that strengthens and internally waterproofs cementitious materials, suitable for interior and exterior applications.

**USES:** Deep Seal hardens, densifies, seals and cures concrete while it reduces vapor emissions for application of surface coatings such as polyuria coatings, epoxy coatings, urethane coatings, as well as carpet, floor tile, sheet vinyl, and hardwood flooring materials.

**ADVANTAGES:** Reduces “green window” from 28 days to an average of 5 days. In conditions where salt air and humidity attack the concrete, creating oxidation of the reinforcing steel, Deep Seal has proven to halt such corrosion activity. When Deep Seal is applied to concrete exposed to such conditions, exfoliation or expulsion of the chlorides takes place. Deep Seal reacts with free alkali in the concrete forming silica hydrogel that fills the capillaries within the matrix. This hydrogel waterproofs and seals the surface after all materials harmful to the concrete are removed. This process may take thirty days or longer, depending on the chloride and acidic residual concentration within the capillaries.

**NOTE:** Deep Seal may be applied as a cure and seal as soon as the concrete bleed water flashes off. When properly installed, application of Deep Seal reduces wait time to apply flooring or coatings to an average of 5 days. Always check surface for moisture content before applying coatings or flooring.

**LIMITATIONS:** Different concrete composites (flash additives) may require different system approaches. Call for recommendations.

**APPLICATION:** **Read entire label before using. Use only as directed.** Before applying, preliminary test should be carried out in a small inconspicuous area to determine ease of application and desired results. **Shake well.** Pre-dampen the surface to be treated with a very light mist of water before applying Deep Seal. Apply when temperatures are between 40 F and 100 F. Surface must be free from oils, grease, curing agents, coatings, sealers and any other products that would inhibit the penetration of the sealer. Keep dry and allow surface to cure a minimum of 12 hours. For applications with high moisture transfer, allow surface to cure for 72 hours.

**Horizontal surfaces:** Avoid over application and puddling. Excess Deep Seal will leave white crystals on concrete. Brush or broom to more porous areas.

**Vertical surfaces:** Apply Deep Seal from top to bottom to point of refusal. Apply sealer in two even coats using a low-pressure sprayer. After the first coat has soaked in, immediately apply the second coat. Apply only as much material as the surface will readily absorb. Areas that absorb the sealer at a faster rate will require additional coats. After the final coat of sealer is dry, spray a light mist of water over the treated area. After the first water mist is dry to the touch, apply a second water mist coat.

**PRECAUTIONS:** Protect all glass and glazed surfaces from overspray. Deep Seal will etch glass. Immediately rinse Deep Seal from glass surfaces with cold water. Protect adjacent surfaces from overspray. Rinse all surrounding plant life thoroughly after application.

*Keep out of reach of children. Do not take internally.* It is good practice to always wear protective clothing, gloves and eye protection when handling sealants.

**COVERAGE:** Rough slab finish: 75 – 200 square feet per gallon Dense and smooth slab finish: 150 – 200 square feet per gallon

**CLEAN UP:** Rinse equipment with cold water. Do not reuse empty containers. Dispose of properly.

**AVAILABILITY:** VanHearron’s Deep Seal is available in 1 gallon bottles.

Form: Liquid  
Color: Clear  
Odor: None  
Boiling Point/Range (760 mm Hg): 212°F (100°C)  
Flash Point: N/A  
Auto Ignition Temp: N/A  
Lower Flammability Limit (LEL): N/A  
Upper Flammability Limit (UEL): N/A  
Vapor Pressure (mm Hg at 20°C): 17.0  
Vapor Density (Air= 1): N/A  
Freezing Point/Melting Point: N/A  
Solubility (Water): 100%  
Specific Gravity: 1.1  
Evaporation Rate (Ethyl ether = 1): N/A  
Viscosity: Approx. 100 mPa\*s  
pH: 11.3  
Volatility (wt. %): 0  
Liquid Density (20 °C): 1.08 g/cm<sup>3</sup>

VanHearron's state-of-the-art protective treatments have developed a reputation among architects and design professionals as the premier solution for construction chemicals. VanHearron, Inc. is dedicated to solving the destructive influence water intrusion and other elements have on tile and natural surfaces.

*Technical service engineers and chemists are available to answer questions on product performance, application methods and chemical composition.*

Disclaimer/Warranties: 100% satisfaction guaranteed when used as directed. Contact VanHearron for exclusive remedy or either refund of purchase price or replacement of product. Proof of purchase within one year of purchase required. Neither manufacturer nor seller have any knowledge or control concerning the purchaser's use of the product. No expressed warranty is made by manufacturer or seller with respect to the results of any use of the product or container wherein the product is packaged. No implied warranties including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular purpose are made with respect to the product. User shall rely on his or her own information and tests to determine suitability of the product for the intended use. User assumes all risk and liability resulting from use of the product. Neither manufacturer nor seller assume any liability for personal injury, loss, or damage resulting from the use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones which may exist. In the event that the product shall prove defective, buyer's exclusive remedy shall be that the seller or manufacturer shall, upon written request of buyer, replace any quantity of the product which is proven to be defective or shall, at its option, refund the purchase price of the product upon return of the product. Manufacturer shall not be responsible for use of this product in a manner to infringe on any patent held by others.