

## TECHNICAL DATA SHEET

### GENERAL

**DESCRIPTION:**

Bulletproof's VAPORLOCK is a Chemical Hardener, Densifier, and Soluble Chloride Reducer used over bare concrete before cementitious overlay applications. VAPORLOCK is a non-flammable, non-toxic, non-acid sealer that strengthens and internally waterproofs cementitious materials.

**PRIMARY USE:**

Vapor Shield reduces vapor emissions in preparation for surface coatings such as polyurea, epoxy, urethane, carpet, floor tile, sheet vinyl, and hardwood. VAPORLOCK has been shown to prevent corrosive activity in conditions where the concrete is impacted by harsh elements/weather. VAPORLOCK reacts with free alkali in the concrete, forming a 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 could take up to thirty days or longer, depending on the chloride and acidic residual concentration within the capillaries.

*Note: ALWAYS check the surface for moisture content before applying coatings or flooring.*

**SURFACES:**

Concrete, mortar beds, cement-based plaster, and most masonry substrates.

**WARNING:**

VAPORLOCK should never be used on tile.

### APPLICATION

**MIXING INSTRUCTIONS:**

Shake well. The surface being treated should be pre-dampened with water, using a very light mist before applying the sealer.

**APPLICATION INSTRUCTIONS:**

The surface must be free from oils, grease, curing agents, coatings, sealers, or any other products that would inhibit the penetration of the sealer. The character being treated should be pre-dampened with water, using a very light mist before applying the sealer.

Horizontal Surfaces: Avoid over-application and puddling on flat surfaces. Brush or broom to a more porous area. Excess unreacted Vapor Seal will leave white crystals on the concrete.

Vertical Surfaces: Apply from top to bottom to the 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 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.

**LIMITATIONS:**

The application temperature range is between 40°F - 100°F. Do not apply if the ambient air temperature is 40°F and falling or above 100°F and rising. Do not add other materials to the mixture of the product.

### SPECS

**PACKAGING/COLOR:**

VAPORLOCK is packaged in 5-Gallon Pails.

**PRODUCT COVERAGE:**

Rough Finish: 75-200 sq ft/gal  
Smooth Finish: 150-200 sq ft/gal

**STORAGE:**

Storage at 40°F - 90°F. Protect from freezing. Shelf life is approximately 18 months.

**CLEANING:**

Rinse equipment with cold water. Do not leave behind any empty containers. Dispose of it properly.