



# A Cure and Seal, Hardener and Densifier

# VAPOR SHIELD

## DESCRIPTION AND USE:

Multicoat's VAPOR SHIELD is a Chemical Hardener, Densifier, Soluble Chloride Reducer used over bare concrete prior to cementitious overlay applications. Vapor Shield is a non-flammable, non-toxic, non-acid sealer that strengthens and internally waterproofs cementitious materials.



## ADVANTAGES:

- Blocks & Reduces Vapor Emissions
- Leaves the Concrete Breathable
- Purges Soluble Chlorides and Prevents Re-Entry
- Does not alter bonds
- Reduces "green concrete" window to average of 5 days

## BASIC USE:

Vapor Shield reduces vapor emissions for application of surface coatings such as poly-urea coatings, epoxy coatings, urethane coatings, as well as carpet, floor tile, sheet vinyl and hardwood flooring materials. In conditions where salt air and humidity attack the concrete, causing oxidation of the reinforcing steel, Vapor Shield has proved to halt such corrosion activity. When Vapor Shield is applied to concrete exposed to such conditions, ex-foliation or expulsion of the chlorides takes place. Vapor Shield reacts with free alkali in the concrete forming a silica hydro-gel that fills the capillaries within the matrix. This hydro-gel 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:** This sealer may be applied as a cure and seal, as soon as the concrete bleed water flashes off. When properly installed, applications of this sealer 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.

## PACKAGING/COLOR

VAPOR SHIELD is packaged in 1-Gallon Cans, and 5-Gallon Pails, 55 Gallon Drums, and 275-Gallon Totes.

## COVERAGE:

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

## SUITABLE SURFACES:

Concrete, mortar beds, cement based plaster, most masonry substrates

## MIXING:

Shake well. The surface being treated should be pre-dampened with water, using a very light mist prior to application of the sealer.

## APPLICATION:

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

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

**Vertical Surfaces:** Apply 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 sealer at 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 touch, apply a second water mist.

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## LIMITATIONS:

Application temperature range 40°F to 100°F. Do not apply if 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.

**WARNINGS: VAPOR SHIELD should never be used on tile. CAN ETCH GLASS. Remove immediately. Do not dilute or alter. Protect from freezing.** Protect vehicles, glass surfaces, plant life, aluminium, ceramics glazed tile and wood from overspray. Remove overspray with soap and/or water immediately. Unprotected areas should be pre-wetted with water and rinsed continuously. Eye protection, gloves and appropriate clothing should be worn to minimize skin contact.

Different concrete composites (flash additives) may require different system approaches. Call Multicoat's office for recommendations.

## STORAGE:

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

## CLEANING:

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

## WARRANTY:

**WARRANTY:** Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.

**WARRANTY DISCLAIMER:** There are no warranties which extend beyond the description of the fact hereof. Seller expressly disclaims all other warranties regarding the use of its products, whether expressed or implied, including the implied warranties of merchantability and for fitness of a particular purpose. Since use of the product is beyond the Seller's control, the Buyer assumes all risk of use.

**EXCLUSIVE REMEDY:** Seller's sole obligation, and buyer's exclusive remedy shall be to replace material if found to be defective.

**DAMAGE LIMITATION:** Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

**FOR PROFESSIONAL USE ONLY:** Multicoat products should be used by licensed contractors. Multicoat is not a contractor and the contractor remains liable for all damages and inadequate product performance caused by construction of the substrate and the selection and installation of all sealants, flashings, and related components.

**Vapor Shield**

Top 1/16" of Surface remains untreated resulting in no negative effect on adhesion or bonding of coatings.



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