

# ***Multicoat Corp. Technical Data***

## **Multicoat Concrete Vapor Shield**

### **CHEMICAL HARDENER, DENSIFIER, SOLUBLE CHLORIDE REDUCER**

#### **BENEFITS**

- Blocks and reduces vapor emissions through concrete but leaves concrete breathable
- Purges soluble chlorides and prevents re-entry. Cures and chemically hardens in one application
- Does not alter bondability of concrete
- Non-combustible. No flammable solvents
- Contains a non-acid penetrating agent – resists many acids, oils, greases and salts
- May be used as a curing and sealing agent that reduces “green concrete” window from 28 days down to an average of 5 days

#### **DESCRIPTION**

Multicoat Concrete Vapor Shield is a non-flammable, non-toxic, non-acid sealer that strengthens and internally waterproofs cementitious materials.

**WARNINGS: Multicoat Concrete 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, aluminum, ceramics, glazed tile and wood from overspray. Remove overspray with soap and/or water immediately. Unprotected areas should be pre-wet with water and rinsed continuously. Eye protection, gloves and appropriate clothing should be worn to minimize skin contact.

#### **USAGE**

Multicoat Concrete Vapor Shield reduces vapor emissions for application of surface coatings such as polyurea 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, Multicoat Concrete Vapor Shield has proved to halt such corrosion activity. When Multicoat Concrete Vapor Shield is applied to concrete exposed to such conditions, exfoliation or expulsion of the chlorides takes place. Multicoat Concrete Vapor Shield 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:** This sealer may be applied as a cure and seal, as soon as the concrete bleed water flashes off. When properly installed, application 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.

#### **APPLICATION:**

**Shake well. The surface being treated should be pre-dampened with water, using a very light mist prior to application of the sealer.** Application temperature range 40°-100°F. Surface must be free from oils, grease, curing agents, coatings, sealers or any other products that would inhibit the penetration of the sealer.

**Horizontal Surfaces:** Avoid over-application and puddling on horizontal surfaces. Excess unreacted Multicoat Concrete Vapor Shield 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 coat.

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

**COVERAGE:** Rough Slab Finish: 75 – 200 sq ft/gal  
Dense and Smooth Finish: 150 – 200 sq ft/gal

#### **COMPLIANCE: Federal EPA V.O.C.**

Disclaimer/Warranties: 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 that the product comes in. 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 be determine suitability of the product for the intended use and 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 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.

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

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