



# A System to Seal and Protect Pools and Water Features

## DESCRIPTION AND USE:

Multicoat's SHIELD KOTE SYSTEM is used to internally strengthen, seal and shield concrete water features against water penetration. Ideal for Pools, Water Features, Ponds, Fountains, and other cementitious surfaces.

The SHIELD KOTE SYSTEM is a pre-coating system for concrete used before the application of SCRATCH KOTE in pools and as an external final coating in water features. The SHIELD KOTE SYSTEM is comprised of two products: Vapor Shield and Pond Kote.

VAPOR SHIELD is a ready-to-use 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.

POND KOTE is a super bonding, polymer modified cementitious coating that is designed to restore the function and appearance of old concrete. Cured product seals and forms a protective coating over concrete surfaces which are submerged underwater. The longer the product is submerged in water the tighter the polymers merge forming the water resistant coating.

**Used together in the "SHIELD KOTE SYSTEM", the concrete surface is taken to a water resistant state.**

## ADVANTAGES:

- Blocks & Reduces Vapor Emissions
- Purges Soluble Chlorides and Prevents Re-Entry
- Vapor Shield reduces "green concrete" window to average of 5 days
- Fish Friendly / Tested Safe for Fish
- Seals Concrete
- Freeze - Thaw Resistant
- Environmentally Friendly
- Pond Kote is available in 3 textures: Coarse, Smooth and Extra Smooth
- Pond Kote is also available in 2 colors: Grey and White

## SURFACE PREPARATION:

Surface must be free from oils, grease, curing agents, coatings, sealers or any other products that would inhibit the penetration of the sealer and bonding of the cementitious coating. Refer to Multicoat's Pond Kote Instruction sheet for detailed surface preparation and application Instructions.

## APPLICATION:

### VAPOR SHIELD

Refer to the Vapor Shield installation sheet for full detailed instructions.

Vapor Shield 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 coatings to an average of 5 days. Always check surface for excessive moisture content before applying coatings.

**For Vapor Shield to work properly pores of the concrete substrate must be opened for proper penetration.**

**Horizontal Surfaces:** The surface being treated with Vapor Shield should be pre-dampened with water using a very light mist prior to application of the Vapor Shield sealer. After the first coat has soaked in, immediately apply the second coat followed by a light mist of water. Avoid over-application and puddling on horizontal surfaces. Excess unreacted Vapor Shield will leave white crystals on concrete. Brush or broom excess material to more porous areas.

# SHIELD KOTE SYSTEM



**APPLICATION: (continued)**

**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 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 touch, apply a second water mist.

**POND KOTE Mixing/Application:**

Refer to Multicoat's Pond Kote Instruction sheet for full detailed instructions.

Use a 1/2" drill and Multicoat Cage Mixer to mix material. Mix 1-3/4 to 2 gallon of clean potable water to one 65-lb bag of POND KOTE until well blended and lump free. Application on walls can be by spray and trowel, floor can be by broom or squeegee. Apply at coverage rates listed below. Dampen substrate with water before application. Do not bridge expansion or control joints with the POND KOTE. All expansion or control joints must be cut and cleaned out and filled with approved caulking material.

**Substrate must have a semi-rough profile for proper adhesion of the Pond Kote.**

**LIMITATIONS:**

Do not apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature is below 40°F or above 100°F. Do not apply if precipitation is expected within a twenty four (24) hour period. Do not use if substrate is subject to negative side water pressure.

**COVERAGE:**

**VAPOR SHIELD:** Rough Slab Finish: 75 - 200 sq. ft/gal. Dense and Smooth Finish: 150 - 200 sq. ft/gal.

**POND KOTE:** Thickness: Coverage per Bag 1/16" 120 sq. ft. per bag. 1/8" 60 sq. ft. per bag.

\*1/4" 30 sq. ft. per bag. \*Should be done in (2) 1/8" layers. Substrate, weather, and workmanship will cause coverage rates to vary.

**CLEANING:**

Rinse equipment and clean with soap and water. Do not leave behind any empty containers. Dispose of containers appropriately. Do not allow Vapor Shield to dry on glass. Immediately remove any excess Pond Kote from any unwanted surfaces while wet.

**PACKAGING and STORAGE:**

**VAPOR SHIELD:** is furnished in 1, 5, 55 and 275 gallon containers. Storage at 40°F to 90°F. Shelf life approximately 18 months, Protect from freezing.

**POND KOTE:** is furnished in 65-lb bags. Shelf life is approximately 24 months. Store in a dry environment.

TEST DATA - POND KOTE	
TEST	RESULTS
1. Density, g/cc .....	1.75
2. Compressive Strength (28 day) .....	3125 psi
3. Flexural Strength (28 day) .....	1375 psi
4. Water % .....	22.50%
5. Toxicity (96 hr. LC50) .....	Passed*

\*Toxicity testing was done on flat head minnows and rainbow trout, with no adverse affects to either species of fish.

**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 means, methods, sequences and techniques that are used to install the product which may include: design and construction of the substrate and the selection and installation of all sealants, flashings, and related components.

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