# VaporSolve® Tie Coat

TECHNICAL DATA SHEET

## DESCRIPTION:

VaporSolve® Tie Coat is a two component, fast drying water-based epoxy formulated for use over non-porous surfaces such as VaporSolve Moisture Remediation Systems. It insures the adhesion of subsequently applied cementitious overlays.

VaporSolve Tie Coat adheres tenaciously to hard glossy surfaces and provides an excellent bonding surface for the overlay. It dries in 30-60 minutes depending upon job conditions and is safe and easy to use.

## USES:

- For adhesion of cementitious cementitious overlays
- Bonding surface


## CHEMICAL COMPOSITION:

Epoxy resin dispersion crosslinked with a water-soluble amine adduct.

## COLORS & AVAILABILITY:

Off White. Available in 2 and 3 gallon pre-measured kits only.

## MOISTURE VAPOR EMISSIONS PRECAUTIONS:

All concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing in compliance with ASTM F1869, or relative humidity probe testing in compliance with ASTM-F2170, to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **S-1300 Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

## SURFACE PREPARATION:

Coated surface must be clean and free of amine blush. Amine blush can occur in amine cured epoxies and result in a greasy exudation that will interfere with the adhesion of subsequently applied coatings. APF epoxies are formulated to resist blushing. If blushing has occurred, the surface must be sanded with 80 grit sandpaper or scrubbed with a floor machine and general purpose cleaner. Allow the surface to dry before proceeding.

## MIXING:

VaporSolve Tie Coat is a two component material. The mix ratio is 1 part A to 1 part B. Premix both parts before combining. Proportion the amounts carefully. Mix for 2 full minutes using a low speed drill, scraping the bottom and the sides of the mixing vessel. Reduce with 10% water (approximately 12 oz. per mixed gallon). Mix again for 30 seconds.

***Super-Krete Products is a Division of Arizona Polymer Flooring, Inc.***

*4565 W Watkins St. / Phoenix, AZ 85043 / 800.562.4921*
*623.435.2277 Tel. / 623.435.8585 Fax*
*www.super-krete.com*

# VaporSolve® Tie Coat

TECHNICAL DATA SHEET

**APPLICATION INSTRUCTIONS:**
Material may be applied out of a pump-up sprayer and back-rolled using a ½ inch nap roller. The product may be applied out of a 5 gallon pail using the dip and roll method. Apply at 350-450 sq. ft. per gallon. Roll out well and do not leave puddles.

**SHELF LIFE:**
VaporSolve Tie Coat has a shelf life of 1 year when properly stored in an unopened container. Material should be stored at 55°-90° and no greater than 50% humidity. Ensure all lids are tightly sealed to ensure the longest lasting shelf-life.

**PRECAUTIONS:**

- *Handling Precautions:* Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. Read Safety Data Sheet before using.
- *Slip and Fall Precautions*: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Arizona Polymer Flooring recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Arizona Polymer Flooring or its sales agents will not be responsible for injury incurred in a slip and fall accident.

**TECHNICAL INFORMATION:**

| Physical Properties | |
|---|---|
| Mixing Ratio, by Volume | 1-1 |
| Solids Content by Weight | 48% |
| Volatile Organic Compounds | 40 grams/liter |
| Pot Life (77° F) | 4-6 hours |
| Dry Time for Cementitious Overlay Applications | 15-60 minutes |

**Higher temperatures, lower humidity and increased air movement will decrease time. Lower temperatures and higher humidity will extend dry time.*

| | |
|---|---|
| Adhesion to VaporSolve 100 (after overnight cure or fully cured) ASTM D-4541 | 450 psi, substrate failure |
| Spread Rate over VaporSolve 100 | 350-450 sq. ft. per gallon |

**WARRANTY:**
Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

***Super-Krete Products is a Division of Arizona Polymer Flooring, Inc.***

*4565 W Watkins St. / Phoenix, AZ 85043 / 800.562.4921*
*623.435.2277 Tel. / 623.435.8585 Fax*
*www.super-krete.com*