

# VaporSolve® Joint Filler

TECHNICAL DATA SHEET

## DESCRIPTION:

VaporSolve® Joint Filler is a specially formulated, non-shrinking, semi-flexible epoxy paste used for filling joints and cracks in concrete that will receive the VaporSolve coating system. It is cured with a hydrophobic curing agent that allows it to cure fully in the wet, alkaline environment found in concrete with moisture problems. VaporSolve Joint Filler is modified with a novel raw material that is able to provide flexibility with minimal effect on the water and alkalinity resistance of the material.

VaporSolve Joint Filler contains no plasticizers, phenols or unreacted amines that could migrate out of the cured material and compromise its performance. The product is available in a fast cure version when quicker turnaround is necessary.

## USES:

- Filling joints and cracks in concrete
- For use with VaporSolve systems

## CHEMICAL COMPOSITION:

Internally flexibilized Bisphenol A epoxy crosslinked with a hydrophobic amine curing agent.

## COLORS:

Available in clear 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:

Cracks wider than 1/16" should be routed out to ¼" width. Joints must be shot-blasted and vacuumed clean.

## MIXING:

VaporSolve Joint Filler is packaged in pre-measured kits. **Proper proportioning and homogenization are absolutely critical for success.** The product is available in ¾ gallon, 1½ gallon and 3 gallon kits. Pour the entire contents of Part B into the Part A container. Use a wooden stir stick to get all of the Part B out of the container. **Mix the two components for 2 full minutes by the clock using a mixing drill.** Do not attempt to hand mix. Be sure to move the drill around the mixing container scraping the sidewalls and bottom. Transfer mixed material from the mixing vessel to the substrate as soon as possible.

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

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VaporSolve® Joint Filler 032717



## APPLICATION RECOMMENDATIONS & COVERAGE:

Joint treatment may be done before or after the application of the coating. However joint preparation should be done as part of general surface preparation. Cracks wider than 1/16" should be routed out to 1/4 inch width. After shot-blasting and joint preparation have been completed, vacuum the entire surface thoroughly. Push the thickened VaporSolve Joint Filler into the joint with a putty knife or trowel until the material is flush with the surface. Material may also be put into a caulking gun and placed that way. Be sure the filler has been pushed as deeply as possible into the cracks and to the bottom of the joints. If filler sinks in the joint or crack, apply again to bring flush with the concrete. When application is made to control joints that have been cut 1/4" wide by 1/2" deep, the joint filler will cover approximately 154 ln. ft. per gallon.

Honor all moving joints and do not bridge with floor covering materials. When remediation is to be done under polymer flooring, mark all moving joints and recut after polymer flooring has been installed. Saw cuts must be a minimum of 1/4" wide and 1" deep. Product usage on this type of joint configuration will be approximately 76 ln. ft. per gallon.

## PRECAUTIONS:

- *Handling Precautions:* Use only with adequate ventilation or appropriate cartridge type respirator. 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.

## SHELF LIFE:

VaporSolve Joint Filler 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.

## TECHNICAL INFORMATION:

### Physical Properties

Mixing Ratio, by Volume	Supplied in pre-measured kits only
Solids Content	100%
Volatile Organic Compounds	None
Pot Life Regular Cure (one quart mass at 77 degrees)	40 minutes

### Cure Times Regular Cure (77 degrees)

Dry to touch	7 hours
Coat with VaporSolve	9 hours

### Cure Times Fast Cure (77 degrees)

Dry to touch	4 hours
Coat with VaporSolve	5 hours

### Performance Properties

Hardness, Shore D (ASTM D 2240)	65
Permeability (ASTM E 96)	Results Pending
Resistance to alkalinity (ASTM D 1308) casting exposed to 35% solution of potassium and sodium hydroxide for 60 days	No visual change, 0.14% weight gain
Adhesion to wet concrete	450 psi-concrete fails before loss of bond

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## LIMITATIONS:

- Excessive substrate movement can cause hairline cracking.

## 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.

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