

Product 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.

CHEMICAL COMPOSITION

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

COLOR

Available in clear only.

LIMITATIONS

- Excessive substrate movement can cause hairline cracking.

Technical Data

PHYSICAL PROPERTIES

Mixing Ratio, by Volume.....Supplied in pre-measured kits only

Solids Content.....100%

Pot Life **Regular Cure** (one quart mass at 77°F).....40 minutes

Cure Times **Regular Cure** (77°F)

 Dry to touch.....7 hours

 Coat with **VaporSolve®**9 hours

Pot Life **Fast Cure** (one quart mass at 77°F).....20 minutes

Cure Times **Fast Cure** (77°F)

 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% solutions of

Potassium and sodium hydroxide for 60 days)No visual change, 0.14% weight gain

Adhesion to wet concrete (ASTM D-4541)450 psi-concrete fails before loss of bond

General Information

SURFACE PREPARATION

Cracks wider than 1/16 inch should be routed out to 1/4 inch width. Joints must be shotblasted and vacuumed clean.

MIXING INSTRUCTIONS

VaporSolve® Joint Filler is packaged in pre-measured kits. **Proper proportioning and homogenization are absolutely critical for success.** The product is available in ¼ 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.

APPLICATION INSTRUCTIONS

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 inch should be routed out to ¼ inch width. After shotblasting 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 ¼ inch wide by ½ inch 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 ¼ inch wide and 1 inch deep. Product usage on this type of joint configuration will be approximately 76 ln. ft. per gallon.

HANDLING PRECAUTIONS

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin and wear protective gloves. Read Material Safety Data Sheet before using.

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 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.