

PRODUCT DESCRIPTION

APF VaporSolve® Primer is a specially formulated, water-based epoxy primer, designed to provide superior adhesion over concrete with high levels of moisture vapor emission. When used with the companion finish coat, APF VaporSolve® 100 or APF VaporSolve LP, it completes the APF VaporSolve Ultra System that reduces moisture vapor emissions to acceptable levels for all flooring and maintains its bond under continuously moist, alkaline conditions. The APF VaporSolve LP topcoat system meets ASTM F3010 Standard Practice. When used in conjunction with APF VaporSolve 100 or LP, the system is suitable for concrete substrates indicating up to 99% RH when tested in accordance with ASTM F2170. The product may be applied at temperatures between 40° - 100°F.

APF VaporSolve® Primer has been formulated for low viscosity and excellent substrate wetting capabilities to promote penetration and adhesion. The special curing agent allows for adhesion to damp concrete. APF VaporSolve® Primer is available in a fast cure version when faster turnaround is necessary. The product may be applied at temperatures between 40° - 100°F.

ADVANTAGES

- Allows coating of high moisture content concrete substrates
- Bisphenol F resin technology resists water and alkalinity

PACKAGING

Supplied in complete A+B 0.75 gallon (2.83 L) or 3.0 gallon (11.36 L) total volume mixed units. Use only as complete mixed unit, do not break down into partial mixes.

SURFACE PREPARATION

Concrete must be cured for at least 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be shot blasted to achieve a surface minimum texture of ICRI 3 - 4. Refer to ICRI Technical Guidelines 310-330 *Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair*. Acid etching is not recommended and will void Manufacturer's warranty. Carefully follow the guidelines listed in the Arizona Polymer Flooring published application instructions available at www.apfepoxy.com.

TECHNICAL DATA

Mixing Ratio by Volume	Mix Full Kits Only
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VOC	0 g/l
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Adhesion to Damp Concrete ASTM D-4541	>450 psi
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Cure Time (77°F)	
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Recoat Final Flooring Application (@77°F)	~7 - 8 Hours
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Higher temperatures and lower humidity will shorten cure time. Lower temperatures and higher humidity will increase cure time.

SURFACE PREPARATION, cont.

Diamond abrasive grinding is not recommended. Vacuum prepared concrete surface to remove all dust. Refer to published technical data for APF VaporSolve Joint Filler products for specific preparation requirements.

JOINT TREATMENT

All expansion and other dynamic joints and cracks must be honed. Do not apply flooring system over these types of joints and cracks. Joint treatment may be performed before or after application of the floor system. When joints are cut after installation of the flooring system, mark joints at each end before application. Contraction joints should be placed, spaced and cut in accordance with ACI 302.1R-15. Joint preparation should be performed during general surface preparation. Cracks should be evaluated for possible movement. All cracks should be routed out to ¼-inch minimum width. After shot blasting/grinding process is complete, vacuum floor and cracks to completely remove any dust and debris. Joints and cracks must be completely free of concrete dust and steel shot.

Mix APF VaporSolve® Joint Filler in accordance with the product data sheet. Apply to fill joint completely. Apply additional material if product settles into joint below the concrete surface. Cured product must be level with concrete surface. Allow to cure before final coating. Refer to APF VaporSolve Joint Filler product data sheet for complete instructions.

MIXING

APF VaporSolve® Primer is packaged in pre-measured 0.75 gallon and 3-gallon kits. Do not attempt to mix partial kits. Proper proportioning and homogenization are critical for success. Pour the entire contents of Part B into the Part A container. With low or medium speed drill and Jiffy type attachment, mix for 1 full minute. Dilute with clean, potable water. For the 3-gallon kit, add 1 gallon of water, for mixing a 0.75-gallon kit, add 1 quart of water. **Do not add water before the initial product mix**, only after mixing components A & B for a one full minute. After adding water, mix again for 1 full minute. Be sure to move the drill around the mixing container scraping the sidewalls and bottom.

APPLICATION

Pour material out of the pail within 3 minutes of mixing. If more than 3 minutes elapse, briefly remix the material with the drill mixer to ensure the product is fully mixed before spreading. Spread the product with a flat trowel or squeegee to achieve a coverage rate of 200 sq. ft. per mixed and thinned gallon.

An applicator wearing spiked shoes will back roll the wet material to distribute the material uniformly while working the product into the substrate. **The material must be thoroughly rolled twice to achieve optimal substrate wetting.** Use a quality solvent resistant ¾-inch nap roller cover. Finished dry film thickness will be 3.5 - 4.0 mils, DFT.

LIMITATIONS

- APF VaporSolve Primer must be used on concrete substrates that have been treated with sodium or potassium silicates before subsequent coat of APF VaporSolve 100, LP or Fast Cure.
- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5°F over dew point.

SHELF LIFE

One [1] year from date of manufacture, in original unopened container. Store away from heat sources between 50°F and 85°F (10°C – 30°C). **Do not allow to freeze.**

HANDLING & SAFETY

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. User must read and understand Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com

APF VAPORSOLVE PRIMER PDS 08.26.2021

STANDARD WARRANTY STATEMENT

ICP BUILDING SOLUTIONS GROUP, the owner of Arizona Polymer Flooring, warrants that the product is produced within specifications and is free from defect. No warranty shall be in effect until ICP Building Solutions Group Terms and Conditions of Sales are met, including payment and cooperative promotional considerations. ICP Building Solutions Group warrants that the covered product is free of defect and suitable for the specified purpose for a period of one (1) year from the date of shipment, provided the product is installed within its published shelf life, in strict conformance with specifications, and/or written project-specific installation guidance from authorized representation. ICP Building Solutions Group warrants only when product is handled, stored, mixed and applied in accordance with published recommendations. It is purchaser responsibility to initiate any claim against this warranty within a reasonable time. If determined by ICP that the product does not meet this warranty, the liability of ICP Building Solutions Group shall be limited to refund of the purchase price or provision of replacement product, neither needing to exceed the affected area as determined by a person authorized to perform technical representation for ICP Building Solutions Group. To obtain a replacement or refund the customer must provide written notice containing full details of the non-conformity suspected. The purchaser, owner or their representative shall notify ICP Building Solutions Group, in writing, within five (5) working days concerning any potential defect, or as needed before conditions deteriorate and increase repair costs. ICP Building Solutions Group reserves the right to inspect the non-conforming material prior to replacement. ICP Building Solutions Group may in its discretion refund the purchase price received by ICP Building Solutions Group in lieu of replacing the material. Except for the expressed warranty stated above, there are no other warranties, expressed or implied, including without limitation, any implied warranty of merchantability or fitness for purpose. ICP Building Solutions Group's obligation shall not extend beyond the obligations expressly undertaken above and ICP Building Solutions Group shall have no liability or responsibility to purchaser or any third party for any loss, cost, expense, damage or liability, whether direct or indirect, or for incidental or consequential damages. No customer, distributor, or representative of ICP Building Solutions Group is authorized to change or modify the published data sheets or this warranty in any way. No one is authorized to make oral warranties on behalf of ICP Building Solutions.