

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 emissions. 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. APF VaporSolve® Primer is also ideal over damp or green concrete. 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
- No plasticizers, phenols or unreacted amines to trigger osmotic blistering

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
VOC	80 g/l
Adhesion to Damp Concrete ASTM D-4541	>450 psi
Permeability	
One coat 200 sq. ft./gallon (ASTME-96)	3.0 Perms
Resistance to alkalinity, (ASTM D-1308) (Film exposed to 35% solutions of potassium hydroxide and sodium hydroxide for 60 days)	No visual change, 0.09% weight gain
Cure Time (77°F)	
Recoat Final Flooring Application (@77°F)	~7 - 8 Hours

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 honored. 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.

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JOINT TREATMENT, Cont.

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. Be sure to move the drill around the mixing container scraping the sidewalls and bottom.

USE AS SUPPLIED, DO NOT ADD ADDITIONAL WATER

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 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



WARRANTY

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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.