

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 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. APF VaporSolve Primer is formulated to be applied on concrete that has been treated with silicates.

Shot-blasting will not reliably remove metasilicate residues in the concrete surface.

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. 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
- Bonds to concrete that has been treated with silicates

PACKAGING

Supplied in complete A+B .75 gallon (2.73 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, have a minimum compressive strength of 3000 psi, be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be properly prepared to achieve a surface minimum texture of ICRI/CSP 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 APF published application instructions available at www.apfepoxy.com. Vacuum the prepared concrete surface to remove all dust. Previously coated surfaces that are soundly adhered must be mechanically cleaned and abraded to achieve uniformly gloss-free, open texture.

TECHNICAL DATA

Mixing Ratio by Volume	Mix Full Kits Only
VOC	0 g/l
Adhesion to Damp Concrete ASTM D-4541	>450 psi
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.

CONCRETE MOISTURE

It is the applicators responsibility to Test for concrete moisture in accordance with ASTM F2170-19. If moisture is indicated to be in excess of 85%, apply APF VaporSolve® system in accordance with the published technical data sheet. Consult APF Technical Service for further information.

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. **Do not add water before the initial product mix**, only after mixing components A & B for a one 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. 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 (using the North-South, East-West Method.)** Use a quality solvent resistant 3/8-inch nap roll-over 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 Low Perm (LP) or Fast Cure**.
- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5°F over dew point.
- High humidity/low temperature will prolong cure time

SHELF LIFE

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

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

STANDARD WARRANTY STATEMENT

APF VAPORSOLVE PRIMER PDS 01.04.24

ICP Construction, Inc. ("we" "us" or "our"), manufacturer of Arizona Polymer Flooring, warrants that the product is produced within specifications and is free from defects in material only. No warranty shall be in effect until our Terms and Conditions of Sales (<https://www.icpgroup.com/wp-content/uploads/ICP-Group-Terms-and-Conditions-of-Sale.pdf>) are met, including payment and cooperative promotional considerations. We warrant that the covered product is free of defects in material only and suitable for the specified purpose for a period of one (1) year from the date of shipment, provided the product is (a) installed within its published shelf life, in strict conformance with specifications, and (b) handled, stored, mixed, and applied in accordance with our written instructions. It is your responsibility to initiate any claim against this warranty within the time frame specified below. If we determine that the product meets the requirements of this warranty, then we will, at our sole discretion, either refund the purchase price of the product or provide replacement product, in each case not to exceed the affected area as determined by our authorized technical representative. To obtain replacement or refund you must (a) provide timely written notice to us specifying in detail the non-conformity suspected (no later than five (5) working days after discovery), and (b) provide proof of purchase. We reserve the right to inspect the product prior to replacement. EXCEPT FOR THE EXPRESS WARRANTY ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. IN NO EVENT SHALL WE OR OUR AFFILIATES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE, REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW, INCLUDING, WITHOUT LIMITATION, BREACH OF ANY OBLIGATION OR WARRANTY IMPOSED ON US HEREUNDER OR IN CONNECTION HERewith, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES IN ADVANCE AND EVEN IF A REMEDY SET FORTH HEREIN IS FOUND TO HAVE FAILED OF ITS ESSENTIAL PURPOSE. "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, WITHOUT LIMITATION, LOSS OF USE, INCOME, OR PROFIT, OR LOSSES SUSTAINED AS THE RESULT OF INJURY TO ANY PERSON, OR LOSS OF OR DAMAGE TO ANY PROPERTY (INCLUDING, WITHOUT LIMITATION, PROPERTY HANDLED OR PROCESSED THROUGH THE USE OF THE PRODUCTS), DAMAGES OR LOSSES RESULTING FROM CLAIMS OF OTHER PERSONS AGAINST YOU, OR DAMAGES OR LOSSES SUSTAINED AS THE RESULT OF WORK STOPPAGE, OR REMOVAL AND REPLACEMENT COSTS AND COSTS OF LABOR. IN NO EVENT SHALL OUR LIABILITY ARISING IN CONNECTION WITH OR UNDER THIS WARRANTY (REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW) EXCEED THE AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT ONLY. THIS LIMITED WARRANTY PROVIDES YOUR EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT. If you do not agree with these terms, you may return the product within thirty (30) days of purchase for a full refund, provided the product is not opened, altered, or adulterated in any manner, less any shipping and handling charges of any sort. Use of the product, or retention of the product beyond thirty (30) days, constitutes your acceptance of this limited and exclusive warranty. No customer, distributor, or representative of ours 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 us.