

PRODUCT DESCRIPTION

APF VaporSolve® LP (Low Perm) is a specially formulated, 100% solids epoxy coating, designed for use over concrete with high moisture levels for the purpose of isolating the concrete from moisture sensitive flooring. APF VaporSolve® LP is suitable for concrete substrates indicating up to 99% RH when measured in accordance with ASTM F2170. APF VaporSolve Ultra System meets and exceeds ASTM F3010 *Standard Practice for Moisture Mitigation Systems*. VaporSolve® LP is applied in a single coat without a primer. This system should only be applied over concrete that has never been treated with reactive silicate curing compounds or densifiers. **If the concrete surface is known or suspected of having been treated with sodium or potassium silicate products, use of APF VaporSolve Primer is required. Shot-blasting will not reliably remove metasilicate residues in the concrete surface.**

APF VaporSolve® LP 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 65 - 85°F (18 - 30°C)

ADVANTAGES

- Allows coating of high moisture content concrete substrates
- Prevent failures due to excessive concrete moisture content

PACKAGING

Supplied in complete A+B 1.0 gallon (3.78 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 must be shot blasted to achieve a surface minimum texture of ICRI 3 - 4. **Diamond abrasive grinding is not recommended and will void Manufacturer's warranty.** 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.

TECHNICAL DATA

Mixing Ratio by Volume	Mix Full Kits Only
VOC	<1 g/l
Adhesion to Concrete ASTM D-4541	>500 psi
Permeability	
One coat 100 sq. ft./gallon over prepared concrete (ASTM E-96), without Primer	0.01 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)	~ 6 - 7 Hours

Higher temperatures and lower humidity will shorten cure time. Lower temperatures and higher humidity will increase cure time.

SURFACE PREPARATION, cont.

Carefully follow the guidelines listed in the Arizona Polymer Flooring published application instructions available at www.apfepoxy.com. Vacuum prepared concrete surface to remove all dust. Refer to published technical data for APF VaporSolve Primer and 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.

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® LP is packaged in pre-measured 1.0-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. Do not pigment.

APPLICATION

Pour material out of the pail immediately after mixing. Spread the product with a flat trowel or squeegee to achieve the coverage rate of 100 sq. ft. per gallon if using the single coat system. Measure off the application area and mix the appropriate amount of material for that area. Application personnel wearing spiked shoes then back roll the wet material to produce a uniform film thickness. Use a ½- or ¾-inch nap roller cover. This coverage rate will leave a dry film thickness of 16 mils.

LIMITATIONS

- 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
- Use of kerosene or propane forced air heating equipment during application may cause discoloration and finish defects.

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. Safety Data Sheets are available at www.apfepoxy.com

APF VAPORSOLVE LP PDS 03.16.21

Standard Warranty

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