

PRODUCT DESCRIPTION

APF VaporSolve® 100 is a specially formulated, high-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® 100 is suitable for concrete substrates indicating up to 99% RH when measured in accordance with ASTM F2170. The VaporSolve® Basic System 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 APF VaporSolve Primer. Shot-blasting will not reliably remove metasilicate residues in the concrete surface.**

APF VaporSolve® 100 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® 100 is available in a fast cure version when quicker 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 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 should be shot blasted to achieve a surface minimum texture of ICRI 3 - 4. **Diamond abrasive grinding is not recommended.** 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	<1 g/l
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VOC Pigmented	44 g/l
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Adhesion to Concrete ASTM D-4541	>500 psi
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Permeability	
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One coat 200 sq. ft./gallon over VaporSolve® Primer (ASTM E-96)	0.6 Perms
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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
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Cure Time (77°F)	~6 - 7 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.

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.

MIXING

APF VaporSolve® 100 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.

USE AS SUPPLIED, DO NOT ADD WATER.

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 1/4- or 3/8-inch nap roller cover. This coverage rate will leave a dry film thickness of 16 mils. If using over APF VaporSolve® Primer, the coverage rate should be 200 sq. ft. per gallon as the finish coat.

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

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

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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.

