

## SYSTEM DESCRIPTION

APF VaporSolve® Basic System is a specially formulated 100% solids epoxy coating designed to isolate concrete substrates from moisture sensitive flooring. VaporSolve 100 has been formulated with low viscosity and excellent substrate wetting capabilities to promote penetration and adhesion. The advanced cross-linking characteristic of APF VaporSolve® Basic System reduces the coating's moisture permeability and increases its long term resistance to water and alkalinity.

This system should only be used over concrete that has never been treated with reactive sodium or potassium silicate curing compounds or densifiers. If silicate materials have been previously applied to the concrete, or if the history of the concrete cannot be positively determined, use APF VaporSolve Primer before applying APF VaporSolve 100 LP.

## COLORS

Direct to concrete applications use only clear. Available in Clear, White, Wheat and Delta Fog. Pigmented material *must* be used over the VaporSolve® Primer.

## ADVANTAGES

- Effective Regardless of Moisture Levels
- Easy Installation

## TYPICAL USES

- As undercoat for APF epoxy, polyurethane, and polyaspartic/polyurea floor coatings & toppings.
- As undercoat for sheet good, VCT, mastic applied, plank, and other flooring products that are sensitive to excessive concrete moisture vapor emissions.

## PERFORMANCE

- Permeability/MVT, applied at 16 mils (100) sq. ft./gallon (ASTM E 96): < 0.1 Perms
- Resistance to alkalinity (ASTM D1308): No Visual Change, 0.09% weight gain. ,000 sq. ft./24 hrs. Film exposed to 35% solutions of potassium hydroxide and sodium hydroxide for 60 days)

### Typical System Build

| Coat   | Product                             | Thickness/Coverage  |
|--|-------------------------------------|---|
| Patching, Filling,   | APF VaporSolve Joint Filler         | As required   |
| Primer (Required only for concrete substrates treated with reactive silicates or pigmented VaporSolve 100) | APF VaporSolve Primer (as required) | 200 sq. ft./gallon ~ 8 mils   |
| Vapor Protection Coat  | APF VaporSolve 100                  | 16 mils (100 sq. ft./gallon)  |
| Cementitious Overlays  | APF VaporSolve Tie-Coat             | Required for cementitious overlays, not required for resinous products. |

Consult Individual APF Product Data Sheets for Complete Product Data



# VaporSolve® Basic System

SYSTEM DATA SHEET

## CONCRETE MOISTURE

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.

## 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](http://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 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. 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.

Contact your Arizona Polymer Surfaces sales professional for more information.

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### 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.



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