

SYSTEM DESCRIPTION

APF VaporSolve® Ultra System is designed for use over concrete with high moisture levels for the purpose of isolating the concrete from moisture-sensitive flooring.

APF VaporSolve® Ultra System is composed of VaporSolve Primer and APF VaporSolve 100 or VaporSolve 100 LP (Low Perm, required for applications conforming to ASTM F3010.)

APF VaporSolve Primer is a deep-penetrating, water-based epoxy primer offering deeper penetration and better adhesion when applied to silicate contaminated concrete. APF VaporSolve Joint Filler is a dedicated product to fill stable, non-dynamic joints and cracks for a complete moisture vapor resistant systems. A finish coat of APF VaporSolve 100, a low-viscosity, hydrophobic resin that greatly reduces the possibility of concrete out gassing. Total system thickness is 12 - 16 mils.

PURPOSE

VaporSolve Ultra System is designed to isolate moisture sensitive flooring from all levels of moisture intrusion.

ADVANTAGES

- Effective Regardless of Moisture Levels
- Excellent Adhesion Over Sodium and Potassium Silicate Contaminants (only with VaporSolve Primer)
- 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.
- Flooring materials that require conformance to ASTM F3010 (Requires APF VaporSolve 100 LP) *Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings*

COLORS

APF VaporSolve 100 is available in Clear, White, Wheat and Delta Fog. APF VaporSolve LP only available in clear.

PERFORMANCE

- Permeability/MVT, VaporSolve 100 LP applied at 100 sq. ft./gallon over VaporSolve Primer (ASTM E 96): 0.01 lbs./1,000 sq. ft./24 hrs.
- 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 for Ultra System)	APF VaporSolve Primer	200 sq. ft./gallon ~ 8
Vapor Protection Coat	APF VaporSolve 100 or 100 LP (100 LP required for conformance to ASTM F3010)	12 - 16 mils (100 - 135 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

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. 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.

STANDARD WARRANTY STATEMENT

APF VaporSolve Ultra System 02.02.2021

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.