

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 VaporSolve 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 LP, a low-viscosity, hydrophobic resin that greatly reduces the possibility of concrete out gassing. Total system thickness is 16 mils. Designed to isolate moisture sensitive flooring from all levels of moisture intrusion.

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 LP) Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings

TECHNICAL DATA

Permeability/MVT, applied at 100 sq. ft./gallon over VaporSolve Primer (ASTM E 96)	0.01 lbs./1,000 sq. ft./24 hrs.
Resistance to Alkalinity, Film exposed to 35% solution of potassium hydroxide and sodium hydroxide for 60 days	No visual change
Adhesion to Concrete (ASTM D-4541)	>500 psi

Refer to product data sheet of individual system component for more information.

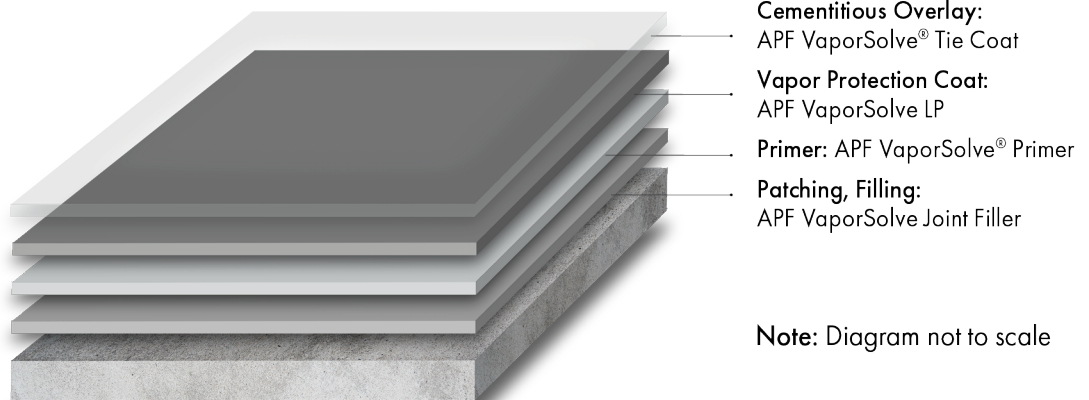
ADVANTAGES

- Effective Regardless of Moisture Levels
- Excellent Adhesion Over Sodium and Potassium Silicate Contaminants (only with VaporSolve Primer)
- Easy Installation

COLORS

VaporSolve LP available in Clear, White, Black, Delta Fog, and Sterling.

TYPICAL SYSTEM BUILD



Note: Diagram not to scale

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 mils WFT)
Vapor Protection Coat	APF VaporSolve LP	200 sq. ft./gallon (8 mils WFT)*
Cementitious Overlays (Required for cementitious overlays, not required for resinous products)	APF VaporSolve Tie Coat	250-300 sq. ft./gallon (5-6 mils WFT)*

*Topcoat coverage determines final texture.

APPLICATION INSTRUCTIONS

1.0 Concrete Moisture

Test for concrete moisture in accordance with ASTM F2170-19 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using in situ probes to determine if excessive levels of moisture are present. If moisture is indicated to be in excess of 85%, apply applicable APF Vapor Solve System.

2.0 Surface Preparation

Concrete must be cured for at least 30 days be clean, structurally sound, and free of wax, loose coatings or curing compounds. Concrete should be properly prepared to achieve a surface Minimum Texture of ICRI/CSP 2-3. Refer to ICRI technical guidelines 310-330 Selecting and specifying concrete surface preparation for sealer, coatings, polymer overlays, and concrete repair. Vacuum the prepared concrete surface to remove all dust. Acid etching is not recommended and will void manufacturers' warranty.

3.0 Application of Primer Coat

After mixing the Vapor Solve Primer per the product data sheet, apply product immediately. Spread the product with a flat trowel or squeegee to achieve a coverage rate of 200 sq. ft. per mixed and thinned gallon (8 mils WFT).

An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.}**

4.0 Joint Treatment

All expansion and other dynamic joints and cracks must be honored. Do not apply flooring systems over these types of joints and cracks. Contraction joints should be placed, spaced, and cut in accordance with ACI 302.1R-15. Joint preparation should be performed during general surface preparation.

After surface preparation is completed and all dust and debris is removed and area is vacuumed. Mix APF Vapor Solve Joint Filler in accordance with the product data sheet. Use material immediately after mixing. Spread the product with a flat trowel, margin tool, or broad putty/plaster knife. Gunning is not recommended for this material. 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 completely prior to applying primer.

5.0 Vapor Protection Coat

After mixing Vapor Solve LP in accordance with the product data sheet, apply product immediately. Spread the product with a flat trowel or squeegee to achieve the coverage rate of 200 sq. ft. per gallon at 8 mils WFT. An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.}**

Recoat within 24 hours; if the recoat window is exceeded, the surface must be abraded with 80-100 grit to a uniform gloss free and dust free texture prior to recoat.

APPLICATION INSTRUCTIONS (Cont.)

6.0 Application of Tie Coat (if required)

Installing a Cementitious Overlay over Vapor Solve LP requires the application of Vapor Solve Tie Coat. After mixing the Vapor Solve Tie Coat in accordance with the product data sheet, apply the material immediately. Spread the product with a squeegee to achieve the coverage rate of no less than 250-300 sq.ft. per gallon (5-6 mils WFT). An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.} Allow the Tie Coat to cure completely prior to applying the intended system.**

LIMITATIONS

- Before applying, measure and ensure that the ambient temperature is at least 5°F above the 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.

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 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.