

WARRANTY PROGRAMS FOR VAPORSOLVE™ MOISTURE REMEDIATION SYSTEMS GOLD TEN YEAR WARRANTY

STANDARD WARRANTY

If the standard warranty is selected, the product manufacturer guarantees that the products are free from manufacturing defects and comply with its published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to the repayment of the product purchase price. All consequential damages, including but not limited to installation labor, damage to the structure or contents of the structure are excluded.

GOLD TEN YEAR WARRANTY

The Gold Ten Year Warranty is an extended product performance guarantee given by the product manufacturer, Arizona Polymer Flooring, to the building owner. The cost of the extended warranty is built into the price of the material purchased by the installation contractor for the moisture remediation project. It is reflected in the total contract price agreed upon between the installation contractor and the building owner.

When the Gold 10 Year Warranty is chosen, the installation contractor must be a floor coating specialist with a minimum of five years of experience in the application of epoxy coating and flooring systems. **The installation contractor must be pre-approved by Arizona Polymer Flooring.** If the contractor is not pre-approved, he must have an Arizona Polymer Flooring technical representative on site for the surface preparation and primer application. The presence of an Arizona Polymer Flooring representative on the job site does not relieve the installation contractor of the responsibility for meeting the application specifications. The installation contractor issues his own warranty to the building owner that surface preparation, product mixing and application thickness meet the manufacturer's published specifications.

Under the Gold 10 Year warranty, Arizona Polymer Flooring guarantees that its products are free from manufacturing defects and comply with its published specifications. In addition, Arizona Polymer Flooring further guarantee that the moisture remediation system will protect subsequently applied flooring materials from moisture and/or alkalinity damage. **This guarantee is made regardless of the level of moisture in the concrete flooring slab.** This warranty shall be limited to repair of the affected areas only as determined by Arizona Polymer Flooring. Repair shall include removal of existing flooring material, reapplication of remediation system and the installation of new flooring material. New flooring material shall be of the same type and value as the old flooring material. Labor charges shall be reasonable and average for the industry. Removal and replacement of owner's equipment is not covered. Damages due to temporary loss of building use are excluded. The length of the Gold Warranty is 10 years from the date of substantial completion of the installation.

Arizona Polymer Flooring and the installation contractor shall be released from warranty obligations under any of the following conditions:

1. Field tests or laboratory analysis reveals interior concrete flooring slabs contain contaminants from previously applied of unreacted silicate materials that interfere with the bonding of VaporSolve™ Basic System. **Note: VaporSolve™ Ultra and VaporSolve™ F.C. are guaranteed to maintain adhesion to silicate contaminated concrete.**
2. Field test or laboratory analysis reveals interior concrete floor slab contaminants, other than unreacted silicates, that interfere with the bonding of any VaporSolve material. These contaminants include, but are not limited to, organic hydrocarbon materials, calcium chlorides and aluminum stearates.
3. Weakening of the concrete flooring slab over time caused by conditions beyond the control of the manufacturer or the installation contractor. If the concrete substrate deteriorates sufficiently, it will no longer support the bond of the remediation system. Such conditions are detailed in ACI 201.2R

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“Guide to Durable Concrete” published by the American Concrete Institute and would include any of the following:

- a. Attack from sulfates of sodium, potassium, calcium, magnesium, or ettringite, sometimes found in soil or dissolved in ground water.
 - b. Deterioration caused by the physical action of salts from groundwater containing sodium sulfate, sodium carbonate and sodium chloride.
 - c. Cracks that develop in the concrete or joints that crack after the application of the remediation system. This includes cracks and pop-out damage to the concrete caused by alkali-aggregate reaction (AAR). There are two types of AAR:
 - Alkali-silica reaction (ASR), which involves various types of reactive silica (SiO₂) minerals
 - Alkali-carbonate reaction (ACR), which involves certain types of dolomitic rocks (CaMg(CO₃))
 - d. Failure of the concrete due to other expansive contaminants in the concrete mix.
4. Concrete has a tensile strength of less than 250 psi per ACI 503.6R, as measured by ASTM C1583 Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method). The remediation products are applied over concrete subject to hydrostatic pressure.

PAYMENT

Invoices payable to the installation contractor and the product manufacturer relating to the moisture and alkali remediation project must be paid in full for the Gold 10 Year Warranties to become effective.

LEGAL ACTION

Legal action that may arise out of this warranty shall take place in Phoenix, Arizona.

PRE-INSTALLATION TESTING

Pre-installation tests are to be done by third party testing firm agreeable to manufacturer for both the field and the laboratory procedures designed to reveal conditions within the concrete that could cause failure of the remediation system or possible internal failure of the concrete itself. Although these pre-conditions are rare, discovery testing listed below shall be done prior to the application. These tests shall be done:

1. **TENSILE BOND TEST** - ASTM C1583 Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method). It is done with a tensile pull tester which is designed to measure cohesive strength of the concrete floor slab. Failure to achieve an adhesive bond to the concrete floor slab means that the substrate is contaminated, and surface was inadequately prepared prior to testing. The test is listed in Section 3.1 of the APF VaporSolve System Specification. The number of tests shall be a minimum of three (3) tests for the first 1,000 sq. ft. and a minimum of one (1) test per each 1,000 sq. ft. or part thereof, afterwards. To satisfactorily pass the test, the test results shall record a minimum concrete tensile strength of 250 psi per ACI 503.6R, when tested per ASTM C1583.
2. Concrete cores shall be taken per ASTM C42 Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete. Two concrete cores shall be taken for the first 1,000 square feet, an additional core for 1,000 square feet to 5,000 square feet, and an additional core for each additional 1,000 square feet to 5,000 square feet thereafter shall be taken.
 - a. ASTM C856 Standard Practice for Petrographic Examination of Hardened Concrete will detect alkali-aggregate reaction (AAR). There are two types of AAR:
 - Alkali-silica reaction (ASR), which involves various types of reactive silica (SiO₂) minerals
 - Alkali-carbonate reaction (ACR), which involves certain types of dolomitic rocks (CaMg(CO₃))
 - b. Fourier-transform infrared spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption or emission of a solid, liquid or gas and is tested per: ASTM Standard Practice for

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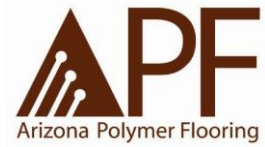
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General Techniques for Obtaining Infrared Spectra for Qualitative Analysis, as modified by Mineralogy, Inc. Tulsa, OK 74114. (MIM: IR 0336: It is a modified FTIR method and it will detect the presence of organic contaminants, by substances and concentration.) Mineralogy test protocol, IR 0336 is a near surface of the concrete slab test. The test results can be helpful in determining the additional deep of surface removal required to remove the contamination.

- c. Ion chromatography is capable of measuring concentrations of major anions chemicals, as modified by Mineralogy, Inc. Tulsa, OK 74114. (MIM: IC 0336: It is an enhanced Ion Chromatography serious of tests that are used to identify inorganic chemical contaminants and it will discern sodium, potassium, lithium, chloride, sulfate, as well as other, inorganic chemical contaminants.) Mineralogy test, IC 0336 is a near surface of the concrete slab test. To satisfactorily pass the test results shall confirm an absence of inorganic contaminants. The test result detecting lithium silicate, potassium silicate and sodium silicate will require the use of VaporSolve Ultra System (VaporSolve Primer and Vapor Solve 100).

LABORATORY TESTING AS PART OF FAILURE ANALYSIS

In the event of a failure of VaporSolve™ Remediation System, laboratory analysis will usually be required to determine the cause of the failure. The laboratory chosen must have extensive experience in analyzing concrete moisture problems. Costs for the testing shall be split equally between the manufacturer and application contractor. Should the building owner wish to employ a secondary laboratory for additional testing, the owner shall be responsible for the cost.



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**GOLD 10-YEAR WARRANTY AGREEMENT BETWEEN BUILDING OWNER,
PRODUCT MANUFACTURER AND APPLICATION CONTRACTOR**

Name of company purchasing warranty: Job location: _____

Projected start date of application: _____

Moisture mitigation system chosen: _____

Total square feet of application: _____

Pre-Installation testing to be done: _____

ACCEPTANCE OF AGREEMENT

We, the undersigned product manufacturer, building owner and application contractor understand and agree to the terms of this warranty.

Product Manufacturer: Arizona Polymer Flooring

Company Officer's Signature: _____

Date: _____

Name of Company Purchasing Warranty: _____

Company Owner or Authorized Owner's Representative Signature: _____

Date: _____

Name of Installation Contractor: _____

Company Owner's Signature: _____

Date: _____

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