

Vapor-Green[®] FC

Concrete Moisture & pH Control

SPECIFIC USE

Vapor-Green FC is a two-component, resin based membrane-forming moisture mitigation system for use under resilient and hard surface floor coverings. This state-of-the-art, synthetic polymer formulation is made specifically for concrete moisture and alkalinity control applications on-grade, above or below-grade and meets or exceeds performance expectations of the new ASTM F-3010 standard. Contact Advanced Moisture Control, Inc. for more information on a wide-range of applications.

Vapor-Green FC is based on a combination of 30 years of proven technology combined with modern advancements in chemical engineering. Vapor-Green FC will mix faster, wet-out easier, penetrate quicker and cure out faster than traditional formulations. This means increased user-friendliness and job site productivity.

Water-reducible, VOC compliant and environmentally-safe, Vapor-Green FC offers all the benefits of a solvent-based epoxy, without creating a toxic environment during the application. Laboratory tested, Vapor-Green FC will penetrate and seal concrete and masonry surface to bring vapor emission into compliance for the safe installation of floor coverings or coatings.

Substrate preparation can be achieved by shot-blasting and hydro-profiling. However, Vapor-Green FC is also ideal for today's modern diamond-grinding technology which provides a superior flooring surface that minimizes cement-patching and increases spread rates. This translates in to a very productive, cost-saving technology for concrete moisture control installations. Contact Advanced Moisture Control, Inc. for more information on profiling techniques for concrete surfaces.

Vapor-Green FC will not peel, chip, flake, re-emulsify or delaminate after curing in the presence of high moisture and alkaline conditions. Specifically formulated for concrete adhesion even in damp conditions, Vapor-Green FC will achieve bond strengths that exceed the tensile strength of the concrete itself.

Vapor-Green FC chemistry is VOC compliant and safe for application in working facilities such as hospitals, schools or office buildings. Vapor-Green FC will not support biological growth such as bacteria or mold and does not require the use of anti-microbial or a biocide. Vapor-Green FC does not contain proteins, latex additives or other organic ingredients which can support biological growth and break down over time.

Vapor-Green FC can be applied as a one-coat or two-coat system, depending on moisture levels and applicator preferences. A one-coat application can be used on new, high quality concrete slabs. A two-coat application is recommended for old slabs or where highly porous concrete is actively off-gassing and creating pin-holes. Approximate spread rates are 150 square feet per gallon depending on moisture levels and surface profiles.

Vapor-Green FC is compatible with quality cement compounds, directly adhered flooring materials and polymer coatings. Contact Advanced Moisture Control, Inc. for complete details on substrate preparation, application and subsequent material installation.

GOVERNMENTAL / ENVIRONMENTAL APPROVALS

All Advanced Moisture Control, Inc. Vapor-Green products fulfill all EPA, Federal, State, County and City requirements for low odor and VOC compliant material mandates.

ADVANCED MOISTURE CONTROL, INC.
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Vapor-Green is environmentally-safe and user friendly.



Non flammable.



Non corrosive.



Non polluting.

NON-DEFECTIVE INSTALLATIONS

Applications are factory certified or manufacturer installed. All projects require a quality assurance form to be completed. Please contact us at 949-788-1490 for more information or visit us online at our listing below.

FLOORING COMPATIBILITY

Intended for any grade-level installation for any floor covering type such as:

Resilient	Rubber	Carpet
Resinous	Wood	Linoleum
Synthetic	Engineered floating floors	

PERFORMANCE

ASTM E-96 - Water Vapor Transmission Rate
Reduction: 0.1 perms
Complete system: 25 Pounds / 100% RH

ASTM D-1308 - Acid/ Alkali Resistance
14 pH

ASTM D-4541 - Adhesion to Concrete
>500 psi (slab failure)

ASTM F-1869 - Calcium Chloride Test
<3.0 pounds per 1,000 sq.ft. / 24 hrs.

ASTM F-2170 - Relative Humidity Test (In-situ)
Resistant to 100% RH

ASTM F-3010 - Standard Practice for Mitigation Systems
Meets or exceeds 2013 requirements

Volatile Organic Content - 70 g/L or less (water reducible)

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PROJECT / SITE DOCUMENTATION

Every concrete slab regardless of age, elevation or location has a measurable moisture and pH (alkalinity) level and if required, must be tested in strict accordance to ASTM standards and conform to floor product manufacturer specifications. Correct slab testing procedures by approved third party testing or professional certified testing personnel will be acceptable.

Advanced Moisture Control, Inc. recognizes the following industry standard methods as outlined in ASTM F1869 for moisture and ASTM F 710 for pH (alkalinity) and ASTM F-2170 for internal relative humidity. Specific documentation pertaining to slab design and installation parameters and environmental conditions is required for warranted installations. Contact Advanced Moisture Control, Inc. for more information.

Moisture vapor levels over 15 pounds per 1,000 sq. ft. / 24 hours as measured by pre-packaged calcium chloride tests conforming to ASTM F1869 or internal relative humidity over 95% as measured by devices pursuant to ASTM F2170 may be indicative a contributing source of water such as a broken pipe or other flooding. Please contact Advanced Moisture Control, Inc. for additional information on how to proceed with these rare conditions.

SURFACE PREPARATION

All concrete surfaces, new or old, shall be clean and free of paint, dry wall mud, oil and any surface contaminants. Vapor-Green FC may be applied on brand new, "green" concrete or on existing slabs regardless of age. Consult with Advanced Moisture Control for new or "green" concrete surface preparation options prior to slab placement. Shot blasting, grinding or hydro-profiling are acceptable to remove surface curing compounds, sealers and other bond-breaker materials on both new or old concrete slab surfaces.

All prepared concrete surfaces must be free of carbonation, scratch resistant and absorbent. Prepare concrete surface in accordance to ICRI Guideline 03732, #2 to #3 when shot blasting. Use #40 stones for diamond grinding. Contact Advanced Moisture Control, Inc. for information on substrate preparation including crack and joint work. Advanced Moisture Control, Inc. considers slab preparation to mean flat surface areas and makes no specific recommendation as to cracks, joints, leveling or other floor covering related preparation issues, which are outside the scope of concrete moisture vapor control.

APPLICATION METHOD

Vapor-Green FC should be allowed to acclimate to the ambient temperature environment of application for 24 hours prior to mixing and application where extreme temperatures may occur. In areas of cold climate or inadequate acclimation time, contact manufacturer for specific recommendations. Vapor-Green FC is packaged in pre-measured 1, 3 or 5 gallon units that are combined at the job site according to written instructions, including water for reduction. Once mixed, material pot life is 3 hours. If left in bucket undisturbed for more than 10 minutes, re-mix briefly.

Vapor-Green FC is rolled on using 3/8 to 3/4 inch nap rollers. Squeegees can be used to help spread out material. Always back-roll material in a north/south and then east/west direction to help distribute material uniformly.

Apply in one or two coats. If applied in one-coat, back-roll the material after 20 minutes to ensure pinholes are removed. If applied in two coats, apply second coat before the first coat has completely dried. Wear cleated shoes during application. Drying times depend on ambient conditions. Vapor-Green FC can be applied between 40 and 120 degrees F. At 70 degrees and 50% relative humidity, Vapor-Green FC will be tack-free in about 4 hours.

Factory approved cement-based compound may be applied after curing using a suitable primer. Contact Advanced Moisture Control, Inc. on using cement products during the tack-phase of the product.

CLEAN UP AND DISPOSAL

Wash skin and tools with water. Empty containers may be recycled or disposed of. Environmentally safe for land fills.

FLOORING COMPATIBILITY

Vapor-Green FC is compatible with high-quality flooring adhesives, cement compounds with primers and resinous coating systems. It is recommended that flooring material manufacturer requirements for adhesion and bond tests are followed. Post-application ASTM F1869 testing may start 2 days after installation. For more information please contact Advanced Moisture Control, Inc.

STORAGE

Store material in normal ambient living environments. Protect from freezing or excessive heat.

LIMITED WARRANTY

Advanced Moisture Control, Inc. guarantees the integrity of the Vapor-Green FC synthetic polymer concrete moisture control material to be free of manufacturing defects that would cause the product to be affected by moisture or alkalinity for a period of fifteen (15) years when installed by certified applicators, subject to the terms of the published warranty. The limited warranty is for floor covering or coating failure caused by concrete moisture vapor emission and alkalinity for the lifetime of the floor covering or coating system selected and installed. The warranty may be extended to a new floor system replacement with written authorization of Advanced Moisture Control, Inc. prior to removal of existing system. The warranty covers the cost of the floor covering or coating, preparation and installation compounds and all labor charges associated to product and floor installation in areas exhibiting failure caused by concrete moisture vapor emission and alkalinity damage as a direct result of product defects in manufacturing. Please refer to published warranty for specific details of warranty coverage and exclusions.



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