

Vapor-Green[®] FC

Twenty Years of Mitigation Experience



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, epoxy 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-cured epoxy, without creating a toxic environment during the application. Laboratory tested and installed on tens-of-millions of square-feet of projects nationwide, Vapor-Green FC will penetrate and seal concrete and masonry surface to bring vapor emission into compliance for the safe installation of all types of floor coverings as well as polymer coatings.

Substrate preparation requires two primary conditions be met: First- The slab surface must be "scratch proof" and suitable for flooring in normal conditions. Second- The slab surface must be water-absorbent. Contact Advanced Moisture Control, Inc. directly for more information. Vapor-Green FC may be applied to brand-new, 3-day old concrete. Moisture Testing, is not required.

Vapor-Green FC will not peel, chip, flake, re-emulsify or delaminate after curing in the presence of high moisture and high 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 as it bonds by infusion and not merely by mechanical-anchoring.

Vapor-Green FC chemistry is VOC compliant and safe for application in working, occupied facilities such as hospitals, schools or office buildings. Vapor-Green FC will not support biological growth such as bacteria or mold. Vapor-Green FC does not contain proteins, latex additives or other organic ingredients which can support biological growth and break down over time due to long-term exposure to alkaline concrete.

Vapor-Green FC can be applied as a one-coat or two-coat system, depending on applicator preferences. On most projects, Applicators prefer to roll-out one area, and re-roll it a second time minutes later to ensure no pin holing occurs and adequate epoxy polymer has been applied. The solid (usually white) color of the finished application indicates a fail-safe application.

Vapor-Green FC is compatible with quality cement compounds, and offers far stronger bonding of floor coverings directly adhered to the Vapor-Green FC surface. Please contact Advanced Moisture Control, Inc. for complete details on substrate preparation, application and subsequent material installation, as well all other aspects of performing slab moisture mitigation services.

GOVERNMENTAL / ENVIRONMENTAL APPROVALS

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

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Vapor-Green is environmentally-safe and user friendly.



Non flammable.



Non corrosive.



Non polluting.

NON-DEFECTIVE GUARANTEED INSTALLATIONS

Vapor-Green FC is installed only by Certified Applicators on Specified Projects and is not sold to the public. All projects that require slab moisture mitigation, are applications that require highly-skilled, licensed Contractors who have the equipment, know-how and Crew to solve this Risk Condition. Contact Advanced on how to become a Certified Applicator.

FLOORING COMPATIBILITY

Intended for any grade-level installation for any floor covering type such as:
Resilient - Rubber - Carpet - Resinous - Wood - Linoleum

Compatible with any type of latex, acrylic, urethane or epoxy adhesive.

PERFORMANCE

ASTM E-96 - Water Vapor Transmission Rate
Reduction: 0.1 perms
Complete system: 25 Pounds / 100% RH / No Limits

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 ASTM requirements

Volatile Organic Content - 70 g/L or less / No Volatile Organic Substances
Made in Southern California under SCAQMD Rules. No toxic fumes.

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AT LEFT and on front cover. Applied in 2014, this slab was specified to receive Vapor-Green FC just three days after casting. Only one pass with a power trowel was made to minimize burnishing and no curing-compound, reducing added costs as well as the costs of conventional slab-prep prior to flooring. This slab has all the surface sealed, including where future walls may be erected.

Vapor-Green FC was rolled-out on 25,000 square feet in just the one day. A few days later, the entire building was constructed on top of the white Vapor-Green FC coating and after months, the flooring was installed.

This is the TJ Maxx Store in Kahului on Maui Island, and is one of several TJX Stores protected by Vapor-Green FC. Please visit our website for our extensive, warranted project history and references.

PROJECT / SITE DOCUMENTATION

In our 20th year, we have eliminated Moisture Testing Requirements permanently.

All slabs are hygroscopic and hydrophilic by nature, as well as highly alkaline. All floor adhesives in the Latex, Acrylic and Urethane class of Products has a pH limitation of 9 to 10 at very best. All slabs are 12+ in pH at baseline. On paper, any specification to directly install a limited pH product over a known high pH surface, is negligence and Moisture Testing and "Moisture Levels or Limits" do not solve Risk.

The only limitation to Vapor-Green FC or any product, is a Saturated Slab from a liquid water source directly in contact below the surface. In this condition, the slab chemistry will multiply in activity and no topical product can withstand a cohesive slab failure caused by saturation. This is a rare event for mostly very aged slabs.

Vapor-Green FC can be applied to any slab surface from 3 days old to several decades as long as the surface profile is suitable for cleanliness and absorption.

SURFACE PREPARATION

All concrete surfaces, new or old, shall be clean and free of paint, dry wall mud, oil and any surface contaminates. 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. Specified new slabs, require no preparation work.

All prepared concrete surfaces must be free of carbonation, scratch resistant and absorbent. Prepare concrete surface in accordance to ICRI Guideline 03732, #1 to #1 when shot blasting. Use #40 stones or lower, 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 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. There is no risk for fire or combustion. There are no harmful fumes or vapors. Tools and skin can be washed with water.

Vapor-Green FC is rolled on using a 3/8 nap rollers. A section of floor areas should be rolled-out and allowed to absorb for about 15 minutes. Then a second-pass to back-roll the Vapor-Green FC and adding a bit more Product if needed, ensures the right amount of material has been applied. Spread rate is 150 to 170 feet per gallon on average, depending on profile.

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 within a few days of the first-coat.

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.

Any popular name-brand cement-based compound may be applied after curing using a suitable primer if required. Contact Advanced Moisture Control, Inc. on using cement products and for direct-bonding of adhesives to the sealer.

CLEAN UP AND DISPOSAL

Wash skin and tools with water. Empty containers may be recycled or disposed of. Environmentally safe for land fills, or used for storage bins for just about anything.

FLOORING COMPATIBILITY

Vapor-Green FC is compatible with high-quality flooring adhesives, cement compounds with primers and resinous coating systems. There are no post-tests for determining a Product's Effectiveness which is a popular idea. Since this data sheet makes a legal promise to be effective and compatible, no outside testing can supersede that inherent liability from any manufacturer. With tens-of-millions of square feet of project applications, there is no known floor compatibility issues.

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 ten (10) 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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