

PLITEQ® FASHM

MOISTURE VAPOR BARRIER ADHESIVE



PRODUCT SPECIFICATION

PRODUCT NAME: **Pliteq FASHM**

DESCRIPTION: **Pliteq FASHM** is a one-component, 100% solids, modified silane polymer-based adhesive. It is solvent-free, water-free, isocyanate-free, non-flammable, has low-odor, negligible VOC content, contains no hazardous chemicals as per OSHA Regulation CFR 1910.1200, and meets all federal, state, and local government indoor air quality regulations. This specially formulated adhesive features extremely low-permeability ratings, forming a moisture vapor barrier capable of withstanding damages from topical liquids. The immediate grab gradually builds into a tenacious but resilient bond allowing for the installation of a broad variety of vinyl floor products through its plasticizer migration resistance. Other approved flooring types include **GenieMat®**, linoleum, stair treads, carpet and turf.

APPLICATION: **Pliteq FASHM** is used in high-moisture applications for bonding **GenieMat** sound control underlayments to various subfloors/substrates, and for bonding specified finish floors and coverings to **GenieMat** sound control underlayments. Approved substrates and surfaces for **Pliteq FASHM** include, APA underlayment grade plywood and OSB; association grade particleboard; cement backer board; cementitious and anhydrite screeds; concrete and radiant heated subfloors that do not exceed 85°F (30°C); gypsum and lightweight concrete (primed with **Pliteq FAS-PS**); terrazzo (properly prepared with all waxes and surface finishes removed).

**SUBSTRATE & SURFACE
PREPARATION:**

Follow flooring manufacturer's guidelines. Substrate must be prepared per ASTM F710 standards including, but not limited to the following:

- Concrete must be placed in strict accordance with applicable standards and specifications. Concrete must be fully cured (at least 45 days), without hydrostatic pressure, without pressurized liquid from any source and free of surface alkaline salt crystallization.
- Concrete floors must be dry, clean, smooth and structurally sound. They shall be free of any foreign materials that might prevent adhesive bond, including dust, dirt, solvent, paint, wax, oil, grease, contaminants from sweeping compounds, residual adhesive, adhesive removers, incompatible sealers, fire-retardant chemicals, fungicides, release agents, alkaline salts, excessive carbonation, laitance, mold, mildew and curing, sealing, hardening or parting compounds.
- Fill all surface cracks, grooves, depressions, control joints and non-moving joints with moisture resistant patching and/or self-leveling compounds, allow to fully cure and correct high spots before applying adhesive.
- The substrate, adhesive and flooring must be acclimated in an enclosed building with the HVAC operational at service temperature, between 60-95°F (15-35°C) and between 30-65% relative humidity, for at least 72 hours prior to, during and permanently after installation.

PRODUCT SPECIFICATION CONTINUED

SUBSTRATE & SURFACE PREPARATION:

- When installing over radiant heated subfloors, turn the heat off for 72 hours before the installation. Failure to turn the heat off may result in shortened working time of the adhesive. 72 hours after the installation has been completed, the radiant heat can be turned back on. When turning radiant heat back on, raise it incrementally, not to exceed a change of more than 5 degrees per hour to a maximum of 85°F (29°C).
- When used as a concrete moisture vapor barrier, substrate must be porous per ASTM F3191.
- Do not use over slabs with ASR alkali silica reaction.
- Do not use below grade for moisture control because of increased potential for hydrostatic pressure.

INSTALLATION METHOD:

Pliteq FASHM may only be used as a wet-set adhesive. Follow flooring manufacturer's guidelines for acclimation, layout, design and any special precautions for installation.

1. Spread adhesive using required tools (see trowel selection and coverage chart below). Adhesive ridges will dissipate, and **Pliteq FASHM** does not require back-rolling under normal circumstances. Moisture protection applications must have 100% adhesive transfer.
2. Install flooring per the instructions below, dependent upon desired application method. (Do not walk, kneel, or work directly on top of flooring without the proper use of knee-boards for at least 60 minutes after flooring is installed).
 - a. Tile products
 - i. Wait 10 minutes after adhesive is spread to build surface tack and reduce movement.
 - ii. Working time is approximately 45 minutes under acceptable temperature and humidity conditions.
 - iii. Use a hand roller and apply normal pressure to ensure proper bond.
 - iv. Periodically lift flooring material to verify proper transfer of adhesive.
 - b. Rolls, sheet goods and stair treads
 - i. Install flooring or stair treads immediately after adhesive is spread.
 - ii. Working time is approximately 45 minutes under acceptable temperature and humidity conditions.
 - iii. Periodically lift flooring material to verify proper transfer of adhesive.
 - iv. Avoid flopping the material into the adhesive and use a three section hand roller to roll out the sheets onto the adhesive. This will reduce air entrapment under the sheets that could cause blistering later on.
3. Roll and cross roll floor with a 75-100 lbs (34-45 kg) roller at the end of the installation to ensure proper transfer of adhesive.
 - a. Rolls and sheet goods - roll from center toward perimeter to expel trapped air.
 - i. Wait a minimum of 1 hour, but no more than 2 hours, after the installation to roll and cross roll floor.
4. Additional precautionary notes
 - a. Wait 6 hours before heat welding sheet goods.
 - b. Wait 6 hours before wet mopping, stripping/finishing the floor.
 - c. Reseal lid when not in use to protect product
 - d. Do not use **Pliteq FASHM** for moisture control if the substrate is not free of contamination and porous with a minimum CSP 1+ with ASTM E1745 (under-slab vapor retarder). CSP 2+ without ASTM E1745 (under-slab vapor retarder).

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TECHNICAL DATA

BASE:	MS Polymer
APPEARANCE:	Off White
APPLICATION TEMPERATURE:	60-95°F (15-35°C)
APPLICATION RELATIVE HUMIDITY:	30-65%
RELATIVE HUMIDITY TEST (ASTM F2170):	No testing required [100%] - For moisture barrier applications with specified notched trowel
SUBSTRATE MVER (ASTM F1869):	No testing required - For moisture barrier applications with specified notched trowel
SUBSTRATE pH (ASTM F710):	No testing required [5-14] - For moisture barrier applications with specified notched trowel
SUBSTRATE Porosity (ASTM F3191):	Must pass CSP 1 with under-slab vapor retarder (ASTM E1745) or CSP 2+ without under-slab vapor retarder (ASTM E1745).
MOISTURE BARRIER:	Protects flooring against unlimited substrate moisture vapor up to (100% RH) with specified moisture barrier notched trowel & is not impacted by topical liquids
FLASH TIME:	10 minutes (Tiles/Planks)
WORKING TIME:	45 minutes
CURE TIME:	6 hours
LIGHT TRAFFIC:	3 hours
HEAVY TRAFFIC:	4 hours
ROLLING LOADS:	8 hours
CLEANING:	While wet: Use a damp cloth and water to remove. While soft: Use denatured alcohol, mineral spirits or an adhesive remover/stripper. Always check compatibility on a piece of scrap flooring.

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STORAGE:	50-90°F (10-32°C)
SHELF LIFE:	1 year [Unopened container at 70°F (21°C)]
FREEZE/THAW STABILITY:	Protect from freezing; Stable to 10°F (-12°C) [3 cycles]
VOC CONTENT:	< 0.1 g/L
CERTIFICATION:	Floor Score®; Green Label Plus®; GREENGUARD®; Material Health Certificate - Bronze; mindful MATERIAL Library; Red List Free (LBC version 3.1); USGBC Member; LEED v4/4.1 Points
PACKAGING:	2 gallon (7.6 L)
QUANTITY/PALLET:	60

TROWEL SELECTION AND COVERAGE:

This adhesive is capable of withstanding the substrate conditions for RH/MVER/pH up to its stated specifications above. However, always refer to the flooring manufacturers recommendations for substrate condition requirements as the flooring may be impacted by the existing substrate conditions. Moisture barrier application methods can be used to protect the flooring from elevated substrate conditions for RH/MVER/pH up to the stated adhesive specifications with the specified moisture barrier notched trowel.

Flooring Type	Tool* (Images not to scale):		Estimated Coverage
MOISTURE BARRIER			
GenieMat to Porous Substrate	1/16" x 1/16" x 1/16" (1.6mm x 1.6mm x 1.6mm) Sq Notch Without under-slab vapor retarder per ASTM E1745		75-125 ft²/gal (1.84-3.07 m²/l)
GenieMat to Non-Porous Substrate	1/16" x 1/32" x 1/32" (1.6mm x 0.8mm x 0.8mm) U Notch For slabs with under-slab vapor retarder per ASTM E1745		180-250 ft²/gal (4.42-6.14 m²/l)
Sheet/Rolls to GenieMat			
Tiles/Planks to GenieMat			
Turf to GenieMat	1/8" x 1/8" x 1/16" (3.2mm x 3.2mm x 1.6mm) U Notch		50-65 ft²/gal (1.23-1.60 m²/l)

*Trowel dimensions are width X depth X spacing. Coverage is approximate and may vary depending on porosity and texture of the substrate and the angle at which the trowel is held. *It is the sole responsibility of the contractor/installer to determine the proper porosity of the subfloor, apply the correct amount of adhesive for the job conditions and ensure that all instructions, procedures and practices are strictly adhered to.



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