

DESCRIPTION

E-TAK 99 Adhesive is an aggressive, pressure sensitive adhesive approved for interior use with Performance Vinyl Tile (PVT), LVT/LVP and solid vinyl sheet flooring, and Vulcanized Composition Rubber sound control underlayments.

FEATURES AND BENEFITS

- Aggressive tack properties
- High moisture resistance
- Low odor and VOC content

WHERE TO USE

- Approved for interior use with Performance Vinyl Tile (PVT), LVT/LVP and solid vinyl sheet flooring, and Vulcanized Composition Rubber sound control underlayments.

LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior installations only
- Install flooring only in areas that are recommended by the flooring manufacturer.
- Do not install into wet adhesive over non-porous substrates.
- Do not apply directly over any adhesive residues, including cutback adhesive.
- Do not install in areas with hydrostatic moisture, osmotic blistering, or alkali silica reaction conditions.
- Use only when the substrate temperature is between 65°F and 90°F (18°C and 32°C).
- Do not install unless the surface temperature of the substrate is 10°F (5°C) above the dew point.
- Do not install when the relative humidity (RH) of the concrete slab (ASTM F2170), or the pH, exceeds the limits listed in the table below.

Floor Covering	RH%	pH
Pressure Sensitive Installations (PVT & LVT/ LVP Only)	99%*	Below 12
Wet or Semi Wet Adhesive Installations	95%	Below 11

*See Disclaimer for Adhesive with 99% RH Limit

SUITABLE SUBSTRATES

- Fully cured concrete at least 28 days old and installed according to ASTM F710 (see “Disclaimers” section)
- Exterior-grade plywood, Group 1, CC type and other approved wood substrates (per the flooring manufacturer’s recommendations)
- Exterior rated Portland-based self-leveling underlayments and patching compounds
- Properly prepared, primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Radiant-heat systems that have been properly installed that are maintained at a maximum of 85°F (29.4°C) surface temperature.

SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid, and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may affect the overall performance of the product.

- Substrates must be flat to 3/16" in a 10-foot span (4.8 mm in a 3.0 m span). Fill all holes or cracks using a high moisture rated cement-based self-leveling underlayment or patching compound.

MIXING

- Ready to use, no mixing necessary

Note: Choose all appropriate safety equipment before use. Refer to Safety Data Sheet (SDS) for more information.

PRODUCT APPLICATION

Read and follow product installation instructions for acclimation requirements.

1. Select the appropriately notched trowel (see the "Approximate Coverage" chart) and spread the adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
2. For working time and flash time, see the "Application Properties" chart below. Protect the open adhesive from dust and debris, which will inhibit proper bond and decrease tack.
3. Once the flooring is installed, immediately roll flooring with the recommended-weight roller across the width and length of the flooring surface.

CLEANUP

- immediately clean adhesive from flooring surface with water while adhesive is still fresh/wet.
- Clean tools with water while adhesive is still fresh/ wet. Clean with mineral spirits once dried. Caution: mineral spirits may be harmful to some materials.

PROTECTION

- For wet to semi-wet installation, protect the finished installation from light traffic for at least 24 hours and from heavy traffic for at least 72 hours.
- For pressure sensitive installation, protect the finished installation from light traffic for at least 6 hours and from heavy traffic for at least 24 hours.
- Building owners should become aware of the flooring manufacturer's guidelines for climate-control settings (temperature and humidity). These conditions must be monitored and kept constant to ensure the overall performance and long-term success of the installation.

Product Performance Properties

Laboratory Tests	Results
Percent Solids	45 to 65%
VOCs (Rule #1168 of California's SCAQMD)	<50 g per L
pH	8 to 10
Density	7.5 to 9.2 lbs. per US gal. (0.9 to 1.1 g per mL)
Flash point (ASTM D56)	> 212°F (100°C)

Shelf Life and Product Characteristics

Shelf Life	12 months when stored in original, unopened packaging at 73°F/23°C
Storage Conditions	Store at 65°F to 90°F (18°C to 32°C)
Polymer Type	Acrylic Based
Consistency	Paste
Color	Off-white

PROTECT FROM FREEZING

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 48 hours before work begins.

Application Properties at 73°F (23°C) and 50% relative humidity

Installation Type	Flash Time †	Working time††
Pressure Sensitive Installations Performance Vinyl Tile (PVT) & Luxury Vinyl Tile/Plank	As req'd to reach <u>FULL FLASH</u> Do not start checking until 2 hours after application	Up to 4 hours
Wet or Semi Wet Adhesive Installations (Permanent Luxury Vinyl Tile /Plank; Solid Vinyl Sheet Flooring and Vulcanized Composition Rubber Sound Underlayments)	0 to 30 minutes	Up to 60 minutes
Wet or Semi Wet Adhesive Installations LVT/ Plank over Composition Rubber Sound Underlayments	30 minutes	Up to 60 minutes

† Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

†† Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

Note: Flash time and working time vary based on temperature, humidity, substrate porosity, trowel size, and jobsite conditions.

Approximate Coverage**

Substrate Type	Typical Trowel	Coverage (approximate**)
Performance Vinyl Tile (PVT), Luxury vinyl tile/plank, solid vinyl sheet flooring, and Vulcanized Composition Rubber Sound Underlayments on porous or rough substrates	1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) Square-notch trowel	150 sq. ft. per 1 U.S. gal. (3.1 to 4.5 m ² per L)
Luxury vinyl tile/plank, solid vinyl sheet flooring, and Vulcanized Composition Rubber Sound Underlayments on nonporous or smooth substrates	1/16" x 1/32" x 1/32" (1.6 x 0.8 x 0.8 mm) U-notch trowel	210 sq. ft. per 1 U.S. gal. (4.5 to 6.1 m ² per L)
Vulcanized Composition Rubber Sound Underlayments	1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) Square-notch trowel	70 sq. ft. per 1 U.S. gal. (1.7 m ² per L)
Vulcanized Composition Rubber Sound Underlayments	1/32" x 1/16" x 1/32" (0.8 x 1.6 x 0.8 mm) U-notch trowel	85 sq. ft. per 1 U.S. gal. (2.1 m ² per L)

** Trowel dimensions are width/depth/space. Coverage shown for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, trowel type used & setting practices.

NOTE: Choose all appropriate safety equipment before use. Refer to Safety Data Sheet (SDS) for more specific data related to health and safety as well as product handling.

Installation Guide to use E-TAK 99 to install Ecore's Heritage Motivate PVT

This document **MUST** be used with the then-current Ecore Heritage Motivate Technical Manual

Floor Covering	MVER	RH%	pH	Flash Time ²	Working Time ¹
Ecore's Heritage Motivate PVT / Performance Vinyl Tile	15 lbs.	99%*	12	As required to reach Full Flash . Do not start checking until 2 hours after application	Up to 4 hours

¹ Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

² Spread the adhesive and wait for it to reach a **Full Flash**. Failure to allow adhesive to reach a full flash will result in a failed installation. When fully flashed, the **adhesive will be tacky, will not transfer to your finger when touched, and ridges will be white to transparent**. Take care not to spread more E-Tak 99 than can be covered with planks before working time ends.

Substrate Type	Typical Trowel	Coverage (Approximate)
Ecore's PVT / Performance Vinyl Tile on porous or rough substrates	1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) Square-notch trowel	150 sq. ft. per 1 U.S. gal. (3.1 to 4.5 m2 per L)

Do's

- Use proper trowel
- Keep the trowel at a 45° angle to subfloor.
- Immediately roll installed flooring in multiple directions with a 75lb/100lb. roller and again after hour 1 & 2. You cannot over roll the floor.
- Clean adhesive from floor / tools while wet
- Protect installation from light traffic for a min. of 24 hours & from heavy traffic for a min. of 72 hours
- Cleaning - use minimal water, Ecore's neutral pH E-Cleaner, and microfiber mop.

Don'ts

- Forget to read the installation manual (Technical Manual)
- FANS are not to be used to reduce flash time
- Store adhesive in cold or hot environments
- Store flooring in temperatures above 85 F
- Walk on installed floor prematurely
- Forget to roll floor multiple times in all directions
- Use worn-out trowels
- Do not use excessive water for cleaning. Only use minimal water, Ecore's neutral pH E-Cleaner, and microfiber mop to clean

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the E-TAK 99 installation. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED E-TAK 99 WARRANTIES.** Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN THIRTY (30) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

Disclaimer for E-TAK 99 Adhesive with 99% RH Limit on PVT & LVT/LVP

E-TAK 99 Adhesive has been formulated for the installation of Performance Vinyl Tile (PVT) and Luxury Vinyl Plank/Tile in elevated Relative Humidity concrete substrate conditions up to 99% (ASTM F2170). For a full warranty, it is essential to allow the adhesive to completely dry to a pressure-sensitive state before flooring installation occurs. It must be noted that while the adhesive is warranted to maintain a bond to the flooring and substrate in these elevated RH conditions, it is not and must never be considered a substitute for a moisture mitigation system. This adhesive is designed to be used only on concrete substrates that meet ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring) and ACI 302.2R-06 (Guide for Concrete Slabs that Receive Moisture Sensitive Flooring Materials) both of which require the placement of an impervious vapor retarder/barrier beneath the concrete substrate. The vapor retarder/barrier shall be intact and meet the ASTM E1745 standard. Note that if the presence of an intact vapor retarder/barrier underneath the concrete substrate cannot be confirmed, then moisture mitigation or continued slab drying is required prior to installation. Using this adhesive as a corrective measure for an existing moisture related flooring failure will void the warranty.

When using E-TAK 99 in elevated moisture conditions, the use of an exterior rated patch or self-leveler is required to maintain the bond warranty. The concrete substrate surface must be porous, free of dust, debris, paint, chemical contaminants, adhesive residue, concrete sealers or topical curing agents. The pH of the concrete substrate surface must be below 12.0 when E-TAK 99 is used to install Performance Vinyl Tile (PVT) and Luxury Vinyl Plank/Tile.

NOTE: When E-TAK 99 is applied on wet or semi-wet adhesive installations, the concrete substrate limitations revert to 95% Relative Humidity (ASTM F2170) and a pH below 11.0.

Further Warranty Restrictions include but are not limited to the following:

- Concrete substrate less than 28 days old.
- Concrete substrate with highly polished or burnished non-porous surfaces.
- Concrete substrate without a functioning vapor barrier system that meets ASTM E1745.
- Concrete substrate with hydrostatic moisture, visible presence of water or water droplets, osmotic blistering, alkali-silica reaction problems, or has been flooded.
- The floor covering manufacturer limitations regarding concrete substrate moisture conditions (RH, ASTM F2170), pH and others supersede E-TAK 99 Adhesive recommendations.
- High moisture-related issues such as mold, mildew, and air quality.