

Kinetex<sup>®</sup> is a unique textile composite flooring with specific installation techniques. While it may appear similar to carpet tile, special attention is required when installing Kinetex. The section below titled “Module Placement” should be strictly followed to gain experience with correct installation methods.

The Kinetex Installation Instructions and Kinetex Maintenance Instructions are available electronically. Should you like a copy, please contact Marketing Services at 800.241.4586, extension 8020. For further questions or additional information, Customer Relations can be reached at 800.241.4586.

## Installation Procedures for Kinetex Modules

Make sure you inspect modules prior to installation. No claims will be honored if modules are installed with visible defects. Read all instructions prior to beginning installation.

### Adhesive Requirement

Kinetex Adhesive is an aggressive, pressure sensitive adhesive designed for the installation of Kinetex modules. It is nonflammable and both alkali and water-resistant. It has low odor and “zero” calculated VOCs, which make it ideal for use in schools, healthcare facilities, public buildings and anywhere odor is a concern. Kinetex Adhesive has MicroSept™ antimicrobial preservative and is CRI Green Label Plus™ certified. Warranty coverage requires the use of Kinetex Adhesive. Failure to use Kinetex Adhesive voids all warranty.

Kinetex modules should be placed into the adhesive when the adhesive has dried to transparent or the adhesive does not transfer when touched. Drying time will vary with temperature, humidity and air velocity; however, do not allow the adhesive to dry for more than two hours before installing the floorcovering. Without exception, roll the installation with a 75-100 pound roller, also inside of two hours of the module’s completed installation.

### Site and Modular Material Conditioning

The building must be enclosed and the HVAC in continuous operation. Modules must be conditioned to room temperature for 48 hours prior to installation. The ambient air relative humidity must be between 10%–65% with the substrate and room temperature between 65°–95°F. These conditions must be maintained for a minimum of 48 hours prior to installation and at least 48 hours after completion of the installation.

### Surface Preparation

Dust, dirt, debris, and existing adhesive must be removed before the installation begins. Surfaces must be smooth and level with all holes and cracks filled with Portland cement-based patch reinforced with polymers such as Ardex Feather Finish or Mapei PlaniPatch. Other floor patches must be primed prior to adhesive application. Kinetex Adhesive cannot be applied directly to any substrate where chemical or solvent based cleaners have been used. No moisture testing is required. Kinetex can tolerate 100% RH and pH of 11.0. There should be no condensation or standing water at the time of install.

### Subfloors

No moisture testing required. Kinetex can tolerate 100% RH and pH of 11.0. Substrate temperature must be between 65°–95°F. Since both moisture and pH can increase over time, the manufacturer is not responsible for product failure as a result of changes to subfloor conditions, including increases in moisture / PH levels post installation.

**Wood** - Wood floors must be APA flooring grade smooth and level, or CanPly Select Grade. If the floor is uneven, an approved underlayment will be required. Old finishes must be tested for compatibility with adhesives or removed and porous wood primed. Wood floors must receive a roll-on application of Commercialon<sup>®</sup> Premium Sealer. Follow instructions on the Commercialon<sup>®</sup> Premium Sealer label.

**New Concrete** – New concrete must be fully cured and free of surface moisture (see ASTM F 710). New concrete requires a curing period of approximately 30 days.

## Subfloors *Continued*

**Old Concrete** – Dry, dusty, porous floors must be primed.

**Terrazzo / Marble / Ceramic** – Level all grout lines with Portland cement-based patch reinforced with polymers. Glossy surfaces must be sanded for adhesive bond. Waxes and similar finishes must be removed.

**Hard Surfaces** – Tiles must be well secured to the floor or removed. Broken, damaged, or loose tiles must be replaced. Waxes and similar finishes must be removed from VCT before applying adhesive. Existing sheet vinyl is not a suitable substrate for modular installation and must be removed.

**GypCrete** – GypCrete subfloors must be fully cured and free of high moisture (see ASTM F 2170-2). Gypcrete requires a curing period of approximately 60 days. Additionally, Gypcrete must be treated using Commercialion<sup>®</sup> Premium Sealer in advance of applying adhesive.

## Full Spread Adhesive System

Installation requires full spread use of Kinetex Adhesive. The spread rate for Kinetex Adhesive is approximately 640 square feet per four- gallon bucket over a properly prepared floor and must be spread using a 1/16" x 1/16" x 1/16" square notched trowel. Kinetex adhesive is a transitional hard set PSA with limited working time. Allow the adhesive to dry until the anchor lines are visible and begin installation. Once the control lines are visible complete the installation within 2 hours, which includes trimming and rolling. Replace the trowel clip each time that a new 4-gallon pail of Kinetex Adhesive is opened. Kinetex adhesive average coverage is 640 SF per 4 gallon pail or 160 SF per one gallon pail.

## Tools

Steel measuring tape, right angle square, chalk line and adhesive trowel, knife.

## Installing Kinetex Modules

After adhesive has cured (not to exceed two hours open time), begin the installation at the intersection of the central module anchor lines. Complete the installation one quarter area at a time laying the modules firmly and accurately along the anchor lines. Follow approved installation method(s) for each specific product. For Ashlar, Brick and Monolithic layouts, orient the end or cross seams toward the source of natural light when possible. Roll with 75-100 lb. roller after completing install in work area, not to exceed two hours.

## Alignment

As each module is installed, ensure that the installation is remaining "square" and conforming to the chalk lines. Drying time will vary with temperature, humidity and air velocity. Modules must be installed within two hours after adhesive has dried.

**NOTE: Inadequate amounts of adhesive can cause modules to shift and move and will not be covered by warranty. We will not be responsible for the adhesive bond where other adhesives have been used.**

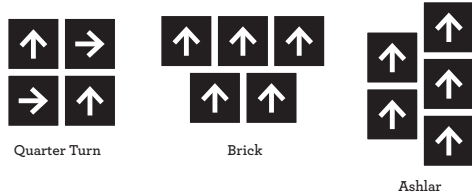
## Adhesive Clean Up

Use a moist cloth when wet; if dry, use a solvent based product applied to a towel then worked onto the Kinetex module for removal of contaminants such as adhesive, paint, oil and grease. Follow manufacturer's instructions.

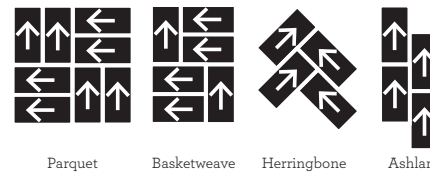
## Module Placement

Arrows are printed on the back of the module to show pile/machine direction. A tight installation without compression is mandatory for optimum performance and appearance of the modular installation. It is critical that each module uniformly touch each adjoining module without a gap. To ensure a clean tight fit, do not pull/tug or slide-in modules, but instead lay each module into its location against the adjoining module. Use your hands to press/form the module into place where the new module meets the previously installed module.

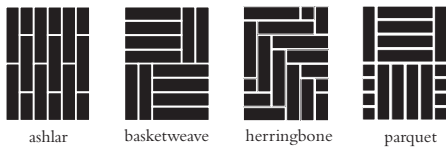
**24" x 24" modules**



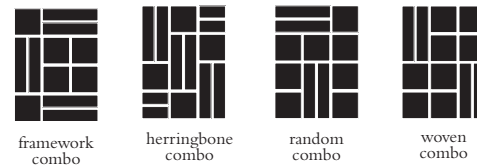
**18" x 36" modules**



**12" x 48" modules**



**12" x 48" and 24" x 24" combo**



**Modular Install Pattern**

Follow approved installation method(s) for each specific product. Kinetex modules have an arrow on the back of each module denoting machine direction.

**Module Repositioning During Installation**

To reposition a Kinetex module during installation, remove it by gently lifting along all four sides of the module with a spatula or putty knife, rotating around each side of the module gently. The center of the module should be the last part of the module touching the floor upon removal.

Do not stretch a module while it is in the adhesive in order to align next to an adjoining tile. An attempt to stretch will likely result in the module pulling back to its original position. Never attempt to remove a module all at once by pulling one or only two sides of the module. Doing so may lead to distorting the module.

**Module Replacement**

On occasion, it may be necessary to replace damaged or heavily soiled modules. Modules can be replaced with new Kinetex modules from on-site inventory or from another area of the installation. A difference of appearance may be noticed when modules are replaced; this difference usually diminishes in a short time. A light application of Kinetex Adhesive may be required.

**Joints**

Although a tight installation is required, care should be taken to avoid exerting excessive pressure when butting one module against another. This can result in buckled or peaked joints. It is important for the installer to do a periodic check throughout the installation for tightness. This check should occur after the placement of each 5 to 7 tiles to ensure proper alignment. Failure to effectively place modules will create the possibility for gaps and allow the subfloor to be visible between the tiles. These gaps may be more noticeable when viewed from a standing position.

**Transitions**

Transitions to Kinetex must accommodate a thickness of 3/16". Kinetex may also transition to 5 mm LVT with no transition strip necessary.

### Stairs

Use single or double undercut stair nosing and cut modules. Since Kinetex will be flat to both the tread and riser, use Kinetex Modular Adhesive. When using full spread Kinetex Adhesive, install modules on steps and risers, inserting the stair nosing edge and the top of the riser edge of each module into the vinyl undercut. For installation of Kinetex Modular on steps, nosing is required. The nosing manufacturer's adhesive, or contact adhesive is required to secure the nosing material. The riser material should receive an application of Kinetex Adhesive on both the riser and the backside of the module in order to achieve a secure bond. Maybe also reference the Kinetex on Stairs document on the website? It also mentions SRT in the document as an option.

### Cutting/Trimming

Kinetex modules may require cutting at perimeters, floor electrical outlets and door openings. Perimeter modules may be cut in the conventional way of letting them cover up the wall areas when cutting them down with a tool such as a cushion back wall trimmer; or they may be cut by measurement, cutting from the back using a carpenter's right angle square and a wall trimmer tool. Whenever modules are cut or trimmed, adhesive must be used. Small pieces of Kinetex modules should also have glue applied to the backing to help hold them in place.

### Completing the Installation

To avoid dislodging modules, do not walk on or move furniture onto modules until the area is completely anchored. Roll entire area with a 75- 100 lb. roller in both directions (north-south and east-west). It is also required that sheets of plywood or hardboard be laid over the new modular surface when transporting heavy furniture on carts or dollies. As a final step, vacuum the entire area with an upright vacuum.

**NOTE:** These installation recommendations are made for the experienced installer. Adherence to these procedures will result in a quality installation. Any questions concerning these recommendations or any special situation encountered should be directed to the Customer Relations Department.

### Chair Pads/Mats

**The use of chair pads/mats with spikes will void all warranties.**

### Following the Installation

Please refer to the Kinetex Adhesive instructions for more specific and complete details. However, please note the following requirements:

1. The new installation of Kinetex flooring is not to be cleaned for 48 hours utilizing any wet or chemical cleaning process.
2. Chair glides and casters for use with Kinetex must be of a type specified / suitable for carpet or soft surface (narrow tip chair supports or 90 degree edges are not suitable). The correctly specified glide or caster will protect your investment from damage that may otherwise not be covered by the floor manufacturer's warranty.
3. Plastic Film Protection often includes adhesive. This type of protection is not recommended, as its adhesive can transfer to the Kinetex face causing aggressive soiling of the product. Instead, Kraft paper, hardboard or similar protection is recommended.