

Commercial Sheet

Installation Guide



Mature® AdVantage®, Hitoe AdVantage, and Floorleum Plain AdVantage

Please refer to the TOLI-NA website www.toli-na.com for the most current guidance about product application charts, material handling, subfloor preparation and testing, product installation and maintenance recommendations. **Failure to follow these instructions may result in installation related problems.**

- Do not install unless you have the correct product, color and quantity of materials. Check for visible damage before installation. Immediately notify TOLI-NA of any discrepancies BEFORE installation. Installation of materials implies acceptance. No credit will be provided for installing the incorrect materials or materials with visible issues.
- Handle materials with care to prevent damage. DO NOT DOUBLE STACK PALLETS.
- Store all flooring products and accessories in a dry interior area maintained between 50°F-85°F (10°C-29°C). Avoid temperature extremes.
- Store resilient sheet flooring rolls standing up, with capped end down. This prevents distortion and compression.
- Acclimate flooring, adhesive and substrate in the area to be installed to a stable condition between 65°F-85°F (18°C-29°C) and 20%-65% RH for a minimum of 48 hours before, during and after installation. Afterwards, maintain a minimum temperature of 50°F (10°C) for the life of the floor.
- Refer to Material Handling & Subfloor Preparation Guide for additional product handling and subfloor preparation guidance.

Dye Lots

- The installation needs to be planned to control dye lots. The installation of multiple dye lots together implies acceptance of material.
- Dye lots, or Lots, are printed on each product label. The first 4 digits of the production code represent the dye lot.
- Check the dye lots on each unit as there may be more than one dye lot on a pallet.
- When possible, isolate individual dye lots in each room/area.
- If more than one dye lot is used in the same room, compare flooring materials to see if a color, texture or gloss variation is present BEFORE installing for acceptance.
- Slight color and gloss variations may be present within a dye lot or between dye lots and are not considered manufacturing defects.

Adhesive Selection

- Make sure that you have the recommended adhesive and trowel size for installation conditions. Use only recommended adhesives as others may not provide satisfactory performance. For most installations, TOLI recommends using TOLI 5001 acrylic adhesive. However, the ultimate adhesive decision is the responsibility of the installer based on the specific environment and use. See our Adhesive Reference Chart or call TOLI-NA Technical Support for assistance at (910) 999-TOLI (8654).

Instructions for the use of TOLI 5001 Acrylic Adhesive

TOLI 5001 High Performance Flooring adhesive can be used on most applications.

- Spread adhesive evenly. Fold the sheets back and comb the adhesive perpendicular to the seam line. This prevents adhesive from contaminating the seam area. Do not allow any puddles or lumps of adhesive.
- When using TOLI 5001, be sure that trowel notches are as recommended and kept clean. TOLI does not recommend re-notching a trowel by hand. Replace the blade or entire trowel as necessary to insure proper coverage.
- Conduct subfloor porosity test as indicated on adhesive bucket label.
- For porous or rough substrates, the sheet goods may be placed into adhesive after 10-20 minutes of open time.
- For smooth and non-porous substrates install sheet goods into adhesive as it becomes dry to the touch, normally 30-45 minutes based on humidity and surface porosity.
- Work off the flooring to prevent adhesive from oozing, shifting of material, or indentation from adhesive displacement. If you must work on top of the material, use large kneeling boards or 1/2" blue foam insulation.
- Roll the flooring with a 100 lb. 3-section roller after setting flooring into adhesive.
- Wait a minimum of 3 hours for foot traffic on installations over adhesive that is wet to touch on porous substrate.
- For all applications, wait 48 hours for rolling traffic or point loads.

Instructions for the use of TOLI 295 2-Part Polyurethane Adhesive

TOLI 295 solvent-free, two-component polyurethane flooring adhesive designed for use with recommended Toli sheet and tile flooring products. Adhesive has been formulated to produce a superior, flexible bond required for use in high traffic applications.

Direction for Use

Requirements for job site conditions, substrate preparation and concrete testing are contained in the Installation Guide for each TOLI North America product. Installation Guides can be downloaded at www.toli-na.com.

1. Pour the entire contents of the Part B container into the Part A container. Using a low-speed mixer, thoroughly mix the contents until a smooth, even colored consistency is achieved. Mixing by hand is not recommended.
2. Immediately pour the entire contents onto the substrate. Do not allow mixed adhesive to set in container. Mixed adhesive will cure faster when allowed to remain in mixing container. Adhesive shall be mixed and applied at normal room temperature. Excessive heat will cause adhesive to cure faster.
3. Spread adhesive evenly using a 1/32" x 1/16" x 1/32" U-Notch trowel. Hold trowel at a 60° angle. Replace trowels with worn notches. Do not re-notching a trowel by hand. Replace the blade or entire trowel as necessary to insure proper coverage.
4. Adhesive Set up and Working Time: Set up time is 10 minutes after mixing. Place the flooring into the wet adhesive after 10 minutes. Ensure 100% adhesive transfer to the flooring material. Working/open time is 40-60 minutes. (higher room temperatures will result in shorter working times). Do not exceed recommended set up / working time.
5. To ensure transfer of adhesive to back of flooring, flooring material must be positioned while adhesive is wet. Allowing a 10-minute open time before positioning flooring will help reduce tile or sheet shifting and adhesive bleed through at tile joints. Kneeling boards are required working on tile. When installing sheet flooring, the use of a push board will help remove excess air under the flooring.
6. Immediately roll flooring in both directions with a 100 lb. three-section floor roller in both directions. Hand roll areas along edges and others where 100lb roller cannot reach.

Post Installation

1. Remove wet adhesive immediately with a clean cloth dampened with rubbing alcohol. Do not apply solvents directly to flooring. Cured adhesive is very difficult to remove.
2. Prevent all traffic for a minimum of 8 hours, 24 hours on stairs. Restrict heavy traffic and rolling loads for 48 hours after installation. Do not wash or begin maintenance procedures on the floor for a minimum of 5 days after installation to allow the adhesive to properly cure.

Seaming Preparation for Resilient Sheet Flooring Products

- Use as few seams as possible, make short seams rather than long seams and place seams in low traffic areas. Keep all sheets running the same direction. Avoid seaming floors in areas subjected to heavy rolling traffic, such as under hospital beds, chairs or other areas subjected to rolling loads.
- Because wood patterns are plank designs, seams in the length blend well. 'Cross seams' are more noticeable. We recommend that estimators avoid cross seams whenever possible on all resilient sheet flooring. Reduced labor cost and a cleaner looking installation will usually offset any additional material costs necessary to avoid cross seams.
- Unroll and cut all sheets at least three inches longer than needed. Dry lay all sheets running the same direction edge to edge and check for any shade, color, texture or height difference. Contact TOLI immediately if discrepancies are found before continuing installation. To help reduce curling after being tightly rolled up, allow the sheet flooring to relax. It may be helpful to re-roll the material face-in or dry lay the sheets flat on the floor overnight. Do not leave materials dry laid or rolled face in for more than 24 hours.
- All factory edges must be trimmed a minimum of 1/4". Cut seams net. Do not leave a gap at the seam, and do not cut seam so tight that material peaks. The best way to achieve this is the 'double cut' method. (The recess scribe method is also acceptable.) Overlap the two sheets about one inch and cut down the center of the overlap with a sharp utility knife. Hold the knife at a right angle to the floor. Fold the sheets back and comb the adhesive perpendicular to the seam line. This prevents adhesive from contaminating the seam area.
- When placing sheets into adhesive, keep the adhesive from penetrating the seam. Adhesive contamination of the seam area will cause seam discoloration and/or failure of the weld. After the sheets are adhered, hand roll the seam area. Roll the entire floor with a 100 lb. 3-section roller. Complete the installation by sealing the seams by heat welding.

Seam Sealing Method

Seams - All seams should be heat welded

- **HEAT WELDING:** Wait at least 24 hours after installation before heat welding.

Heat Weld Instructions

The heat weld method is the strongest of all seam-sealing methods. Only installers who are trained and experienced with this method should attempt heat-welded seams. The installation methods for heat welding TOLI sheet flooring are very similar to that of other products.

Notes:

- TOLI sheet products use a 3.5 mm. welding thread.
- Do not use a heat-welding tip larger than 4.0 mm.
- Use a 3.0 to 3.5 mm U-shaped groover.

WARNING: Practice on scrap material before beginning. This will help the installer to become familiar with heat welding TOLI sheet flooring. This step is critical for successful heat welding.

- Install the flooring, and fit the seams using the 'double cut' method. Do not leave a gap at the seam. Fit seam net, but not so tight that the material peaks.
- Wait at least 24 hours after installation before grooving and welding.
- Groove or rout the seam to 2/3 the depth of the flooring material using a mechanical or hand groover. Use a 3.0 to 3.5 mm wide, U-shaped blade for TOLI sheet products. Be sure to center the groove on the seam so that both sides are equally grooved. Do not groove or rout completely through the flooring material.
- Weld the seam using a hot-air heat-welding gun designed for heat welding resilient flooring. Take care not to stretch the welding thread when applying.
- Follow the Three Part Finishing Process:
 1. Trim the welding thread when "cool to touch" using a trim knife with trim plate attached.
 2. Wait at least 30 minutes for the weld to cool, then trim the remaining welding thread using the trim knife without the trim plate.
 3. Apply a 'glaze' to the surface of the finished weld. Remove the tip from the welding gun. Hold the gun approximately 6 inches above the seam and apply hot air on the weld until the surface becomes slightly glossy. The glazed seam will be smoother, less porous, and less noticeable.
- Sweep and lightly damp mop as needed. Wait 48 hours before wet cleaning.

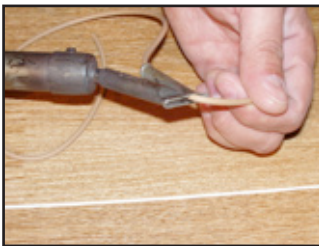


Figure 1
3.5mm welding thread
in 4.0 mm tip.

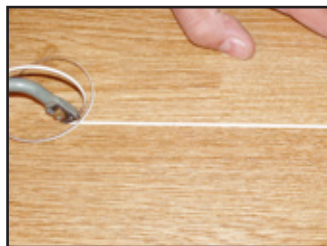


Figure 2
Hand groover grooving seam
without going completely
through the product.

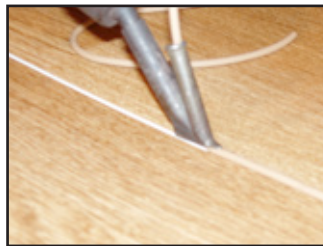


Figure 3
Take care not to stretch
welding thread when applying



Figure 4
Standard tools needed
for Heat Welding.

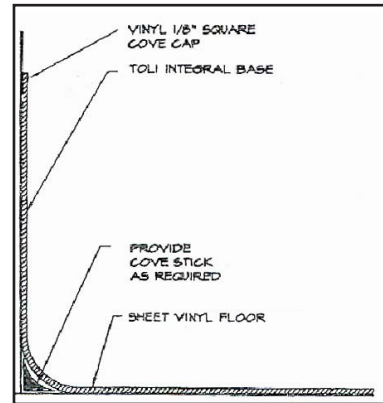
Flash Cove Installation

Flash coving is an extension of the resilient sheet flooring up the vertical wall surface to form an integral wall base. TOLI resilient sheet flooring may be flash coved up a wall to any desired height. 4 or 6-inch heights are customary. Adhere cove stick to the intersection of the floor and wall. Adhere cove cap molding to the wall where the flooring will end. Use TOLI 5001 adhesive. Apply a thin coat of adhesive on the wall using a notched trowel or stiff brush, or both. Allow the adhesive to completely 'tack up' and turn clear before adhering. This should take about 30-45 minutes, depending on porosity of the wall.

Note: Do not adhere sheet flooring to vinyl wall covering or other materials not compatible with acrylic floor adhesives. Remove the vinyl wall covering before proceeding.

After setting the flooring into the adhesive, use a hand roller to make sure the material is in contact with the adhesive. Seams on the inside and outside corners of flash coved installations should be sealed using the heat weld method.

For more detailed information on flash coving, please contact TOLI-NA Technical Support for assistance at (910) 999-TOLI (8654) or info@toli-na.com.



When the installation is complete, follow the flooring product's appropriate Maintenance Guide.