

## ANGLE FIT™ RUBBER STAIR TREADS INSTALLATION INSTRUCTIONS

Stair Tread with Optional Riser

### INTRODUCTION

These instructions are written as a guide to be used by professional installers when installing Tarkett products. These instructions, combined with our adhesives and flooring products, create a system. Utilizing this system will ease the installation process and provide the customer with a completed product that will perform to its intended purpose. Always visit [www.tarkett.com](http://www.tarkett.com) for the most current installation and maintenance instructions. Technical videos and tip sheets are also available. Contact Tarkett Technical Services at (800)-899-8916 with any questions.

Click here to watch instructional video:  
[Angle Fit Rubber Stair Tread Installation Video](https://vimeo.com/323291924)  
(<https://vimeo.com/323291924>)

### USING THE INCLUDED STAIR NOSE TEMPLATE TO DETERMINE ANGLE OF STAIR NOSE

Included in the packaging of every carton of stair treads, you will receive a stair nose template to determine if the nose of the stair tread will require the use of Tarkett 946 Premium Contact Adhesive or Tarkett 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking.

- Each template has a 90° and an 80° angle. These will be used to determine if 946 Premium Contact Adhesive is required on the nose.
- Each template has two ½" radiuses. These will be used to determine if 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking is required in the crook of the nose.
- See installation video or photos below in Section 3 ADHESIVE APPLICATION for detailed explanation when using the stair template



### HANDLING AND STORAGE

1. All Tarkett products must be stored in an indoor, climate controlled space and be protected from the elements. Temperature must be maintained between 65°F (18.3°C) and 85°F (29.4°C) with a relative humidity between 40% and 60%.
2. All cartons must be stored on a dry, flat, level surface. Cartons must be carefully stacked squarely on top of one another and never be stored on edge. Take caution not to over stack the cartons and never double stack pallets. Always protect carton corners from damage by tow-motors and other traffic.
3. Do not flex, bend, or stand stair treads on end.
4. Tarkett flooring and adhesives must be site conditioned at room temperature for 48 hours prior to, during, and after installation. Room temperature must be maintained between 65°F (18.3°C) and 85°F (29.4°C) and the ambient relative humidity must be between 40% and 60%. We strongly recommend the permanent HVAC system be fully operating. **NOTE:** If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration as stated above.
5. Once the installation is completed, the service temperature of the space must never fall below 55°F (12.8°C).
6. In areas that are exposed to intense or direct sunlight, the product must be protected during the conditioning, installation, and adhesive curing periods, by covering the light source.
7. Tarkett products are not recommended for exterior use. Exposure to excessive UV rays can result in fading, degradation, and/or color variation.
8. The highest quality of materials and workmanship is employed in the manufacture of Tarkett Flooring and careful inspection is made before shipment. A quality installation is the responsibility of the installer. It is the installer's responsibility to verify the accuracy of the order and to ensure the materials are checked for damage, defects, and satisfactory color match. An authorized Tarkett distributor or Tarkett representative must be notified of any defects before installation proceeds. **Tarkett will not pay for labor or material costs claimed on installed materials with visual defects.**
9. Tarkett can not accept responsibility for any loss or damage that may result due to processing or working conditions and/or workmanship outside our control.
10. Users are advised to confirm the suitability of this product by their own tests.

## GENERAL SUBFLOOR PREPARATION

1. **All staircases** must be permanently dry, clean, smooth, and structurally sound. The surface must be free of all dust, loose particles, solvents, paint, grease, oil, wax, alkali, sealing/curing compounds, old adhesive, and any other foreign material, which could affect the installation and adhesive bond to the substrate. Permanent and non-permanent markers, pens, crayons, paint, or similar marking tools used to mark the substrate or the back of the resilient flooring material will cause migratory staining. Subfloor contamination or markings that bleed through the flooring material causing discoloration or staining are excluded from the Tarkett Limited Warranty. All substrate contaminants must be mechanically removed prior to the installation of the flooring material. **NOTE: Do not use liquid solvents or adhesive removers.**

Minimum temperature of the substrate must be 60°F (15.6 °C). Substrate temperature should be a minimum of 5°F higher than the dew point temperature.

**Caution: Do not use oil based sweeping compounds.**

Fill all depressions, cracks, and other surface irregularities with a good quality Portland cement based underlayment patching compound appropriate for this purpose.

**Tarkett does not recommend installing over existing resilient floors.** All existing flooring and adhesives must be mechanically removed prior to installing the new flooring material – **Do not use chemical adhesive removers or solvents.** Refer to the Resilient Floor Covering Institute's (RFCI), *Recommended Work Practices for Removal of Existing Resilient Flooring* for best work practices.

**Caution:** Do not install stair treads in areas that are exposed to grease, oil or animal fats.

**Caution: Some resilient flooring products and adhesives contain "asbestos fibers" and special handling of this material is required.**

2. **Concrete staircases** must be constructed as recommended by the American Concrete Institute's ACI 302.2 *Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials* and prepared in accordance with ASTM F 710 *Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring*.

**Do not install** Tarkett flooring over expansion joints, or other moving joints in the substrate. These joints must be respected and should not be filled with products that are not intended for that purpose. Contact an expansion joint cover manufacturer to meet specific flooring conditions.

**A pH test** for alkalinity must be conducted on all concrete subfloors. Acceptable pH range of the adhesive can be found in the adhesive section below, on the adhesive label, and in the adhesive specifications online. Results must not exceed the limits of the adhesive. If the test results are not within the acceptable range, the installation must not proceed until the problem has been corrected.

3. **Wood staircases** must be firmly nailed and sanded flat. Countersink nail heads and fill depressions, joints, cracks, gouges, and chipped edges with a good quality Portland cement based patching compound designed for this purpose.
4. **Do not install over OSB (Oriented Strand Board), particle board, chipboard, luan or composite type underlayments.**
5. **Terrazzo and Ceramic staircases** surface must be free of all glaze and waxes. Remove or replace all loose tiles and clean the grout lines. Use a good quality Portland cement based leveling compound to fill all grout lines and other depressions.
6. **Steel staircase surface** must be mechanically abraded to assist with the adhesive bond. The staircase must be cleaned to remove all dirt, rust and other contaminants that could affect the adhesive or the bond of the flooring material to the substrate. Surface must be primed with a rust inhibitor. It is important to follow the non-porous installation instructions when installing over metal.
7. **An adhesive bond test** must be performed using the actual flooring materials and adhesive to be installed. The test areas must be a minimum of 12" wide and cover the entire depth of the step surface and height of the riser (if applicable) and remain in place for at least 72 hours and then evaluated for bond strength to the substrate.

## GENERAL INSTALLATION

1. Tarkett recommends that the installation of new stairwell materials not be performed until all the other trades have completed their work. Proper precautions must be taken during and after the installation process to avoid damage to the newly installed stairwell materials.
2. Tarkett Stair Treads, Nosings, Risers, and Stringers are available in convenient lengths and sizes, but normally, trimming will be required to obtain proper fit on each stair.
3. If the shape of the step does not conform to the shape of the stair tread or nosing, and cannot be altered to conform, then we do not recommend the installation of our products.
4. Trimming on both sides of the tread may be required to obtain proper fit and pattern match to adjacent steps.
5. **Wide staircases**, which require butting multiple lengths of product, will require additional planning and dry fitting prior to adhesive installation to ensure proper pattern alignment.

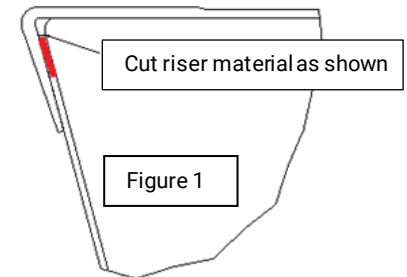
## ANGLE FIT STAIR TREAD AND OPTIONAL RISER INSTALLATION

1. **Fitting the Stair Tread:**
  - a. Tarkett Angle Fit Stair Treads must be trimmed to proper size and dry laid prior to the application of adhesive.
  - b. Since each step on a staircase can vary slightly in width, depth, and squareness, Tarkett recommends scribing each tread and riser to ensure proper fit on the step.
  - c. Measure the width of the step and place a pencil mark on the step's riser indicating the center of the step. Next, measure the length of the stair tread and mark the center point at the back of the tread where the tread meets the riser. **NOTE:** When installing patterned treads the same point of the pattern should always fall at the center point of each tread for visual alignment.
  - d. To fit the stair tread to the depth of the step, place a 2 x 4 under the nose of the tread and position on step. If the tread is still deeper than the step, use the 4" side of the 2 x 4 or increase the size of the spacer, until the back of the stair tread is away from the riser.
  - e. Set the dividers the width of the spacer (i.e.: 2 x 4), scribe, and cut the back of the stair tread. To cut the width, position the stair tread on the step with the right hand side net to the stringer.

- f. Utilizing a set of dividers, span the needles across the two centerline marks. Move to the right hand side of the step. Place one needle on the stringer and the other on the tread. Start at the back of the tread and pull the dividers forward. Keep the needle firmly in contact with the stringer while exerting adequate downward force to scribe the tread and nose of the material.
- g. Following the scribe line, cut the material with a utility knife.
- h. Reposition the tread on the left hand side of the step and repeat the same procedure to fit the left side of the tread.
- i. After fitting the stair tread as described above, if the tread has Grit Tape or Photo Luminescent strips, cut strips back 1/16" on each side of tread to allow for expansion. After installation of the tread, roll the Grit Tape or Photo Luminescent strips to ensure adhesion.
- j. Position the stair tread on the step. Tread must be cut to have a slight gap, maximum 1/32" (.793mm). **Tread must not be compression fit.**

## 2. Fitting the separate, optional Riser:

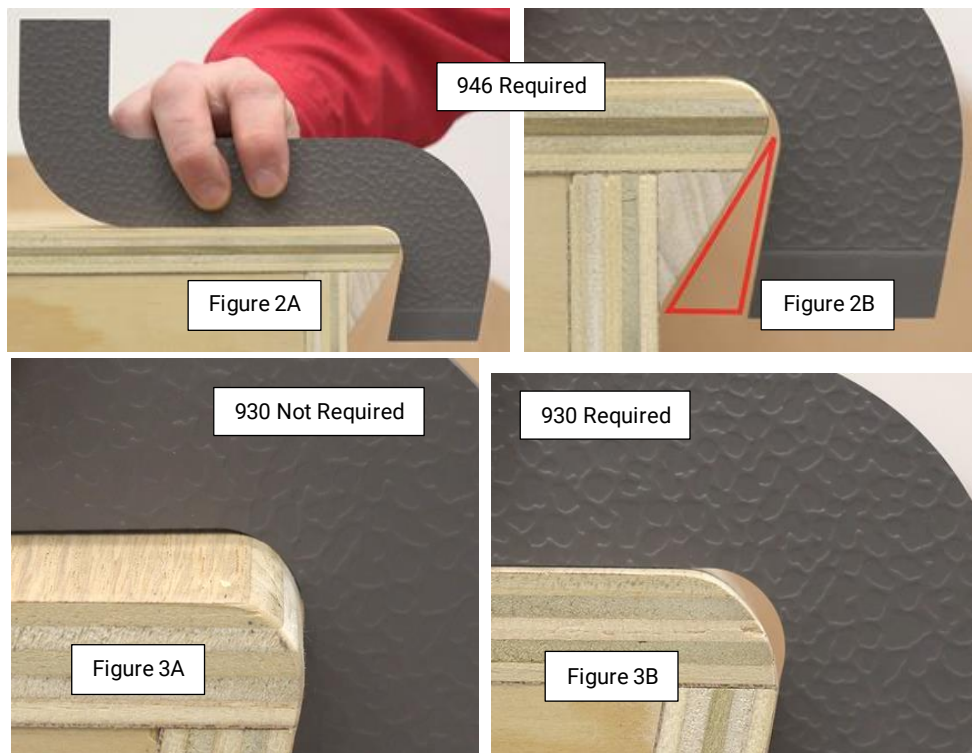
- a. **Using only Tarkett .080" Vinyl Riser material**, Tarkett Risers must be trimmed to proper size and dry laid prior to the application of adhesive.
- b. Following the previous directions for scribing the width of the stair tread, utilize the same centerline mark on the step, position the riser, scribe both sides, and cut.
- c. Set the trimmed stair tread and riser into position. Place the riser material onto the fitted tread material. The toe, or bottom portion, of the riser should set uniformly on the tread surface. While holding the riser material into position cut the height of the riser material to the top of the step riser surface using a sharp utility knife (figure 1).



## 3. Adhesive Application:

### Standard Stair Tread using Tarkett 965 Flooring and Tread Adhesive

- a. Prior to applying adhesive, wipe the back of the tread and riser material with denatured alcohol to remove any contaminants which may interfere with the adhesive bond. (Follow manufacturer's precautions when using denatured alcohol.)
- b. If the angle of the step riser is smaller than the included stair template, Tarkett 946 Premium Contact Adhesive must be used to ensure a tight fit of the tread nose to the step riser (see figures 2A & 2B). **NOTE: This angle may be smaller on multiple stair designs.** To adhere the nose of the stair tread directly to the step riser surface, apply a uniform coat of Tarkett 946 Premium Contact Adhesive to the nosing area of the stair tread and the step riser. Allow the adhesive to dry to the touch.
- c. For a step nosing surface in need of repair or with a radius greater than 1/2" (12.70mm), utilize Tarkett 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking (see figures 3A & 3B). Refer to the provided stair tread template located in the tread carton.
- d. **Important:** Step surface porosity must be checked to determine if the substrate is porous or non-porous prior to applying 965 adhesive.
- e. **For Porous Step Surfaces:** Trowel the 965 Flooring and Tread Adhesive with a 1/16" Square-notch trowel onto the tread portion of the step surface. Keep adhesive back 1/2" from the step edge to provide a bonding area for applications requiring the use of 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking. Allow the 965 Flooring and Tread Adhesive proper open time. Follow adhesive pail label instructions. **Open and working times are dependent on the ambient temperature, humidity, substrate porosity, substrate temperature, and air movement. It is the installer's responsibility to modify the open and working time for jobsite conditions.**



#### 4. Standard Stair Tread using Tarkett Power Tape™

- a. Prior to applying Power Tape, wipe the back of the tread and nosing with denatured alcohol to remove any contaminants which may interfere with the adhesive bond. (Follow manufacturer's precautions when using denatured alcohol.)
- b. If the angle of the step riser is smaller than the included stair template, Tarkett 946 Premium Contact Adhesive must be used to ensure a tight fit of the tread nose to the step riser (see figures 2A & 2B). **NOTE: This angle may be smaller on multiple stair designs.** To adhere the nose of the stair tread directly to the step riser surface, apply a uniform coat of Tarkett 946 Premium Contact Adhesive to the nosing area of the stair tread and the step riser. Allow the adhesive to dry to the touch.  
**NOTE:** Depending on step design, the nosing may also be adhered directly to the riser material using Tarkett 946 Premium Contact Adhesive. Prior to installation, wipe both the front of the riser and the back of the nosing with denatured alcohol. Apply a uniform coat of Tarkett 946 to both the riser and back of the nosing. Allow the adhesive to dry to the touch.
- c. Apply the 9-1/2" wide strip of Power Tape approximately 1/2" back from the internal angle of the stair tread nose.
- d. Thoroughly roll the tape to ensure proper bonding to the back of the stair tread. Trim off excess Power Tape along the edges of the stair tread.
- e. For a step surface nosing in need of repair or with a radius greater than 1/2" (12.70mm) utilize Tarkett 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking (see figure 2). Refer to the provided Stair Tread Template located on the tread carton. Gun an adequate amount of Tarkett 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking into the nose of the stair tread to completely fill the void between the internal angle of the stair tread and external edge of the stair step. **Caution: Improper application of the caulking compound can interfere with the adhesion of the Power Tape and 946 (if required) adhesives.**
- f. Remove release liner from the Power Tape. **WARNING: Once removed, release paper may be slippery. Please keep work area clean and free of release paper.**
- g. Set the stair tread nose into its proper position. With the nose in position lay the tread into place until the nose is tight to the step edge. If 946 Premium Contact Adhesive is required firmly roll the nosing with a small hand roller.
- h. **Important:** If 946 Premium Contact Adhesive is allowed to remain uncovered, after the initial drying period, for periods longer than 2 hours, a loss of adhesion strength will occur. Care should be taken by the installer not to spread more adhesive than can be worked within the 2 hour time frame.
- i. Make certain that the nosing portion of the stair tread is tight against the step nosing.
- j. Start at the front edge of the stair tread and press the tread down firmly and uniformly onto the step surface from front to back.
- k. When the tread is in its final position, roll the entire tread surfaces with a hand roller to ensure proper adhesion to the step surfaces.

#### 5. Separate, Optional Riser Material

- a. For riser installations on **porous surfaces**, apply Tarkett 960 Wall Base Adhesive to the ribbed surface (back) of the riser material with a 1/8" square-notched trowel. The adhesive must cover 80% of the back of the riser material. Leave a 1/4" (6.35mm) uncovered space at the top of the riser to prevent the adhesive from oozing to the surface of the riser.
- b. For riser installations on non-porous surfaces (i.e.: metal, epoxy paint, ceramics, etc.) apply Tarkett 946 Premium Contact Adhesive to both the step riser surface and the back of the riser material. Follow the adhesive label instructions for proper use.
- c. Position riser and roll with a small hand roller. **Note:** Once contact is made to the riser surface, the riser material cannot be repositioned.

#### 6. Post Installation Clean up:

- a. Inspect the tread and riser surfaces, remove any excess adhesive. **Caution:** 930 Two-Part Epoxy Caulking Compound and 931 Rapid Reaction Epoxy Caulking cannot be removed when dried without resulting in damage to the stair tread/nosing material.
- c. Foot traffic must be restricted for 12 to 24 hours after installation depending on temperature and humidity if 965 Tread and Flooring Adhesive, 930 Two-Part Epoxy Caulking or 931 Rapid Reaction Epoxy Caulking and/or 946 Premium Contact Adhesive were used. **Note:** Installations using the Power Tape method may receive traffic immediately following post-installation clean up.
- d. All heavy traffic, rolling loads, furniture dollies, etc. must be restricted for a minimum of 72 hours after installation when using adhesives or caulking compound.
- e. Stair Treads must be swept or vacuumed to remove loose dirt and grit (Lightly damp mop if necessary).

### ADHESIVE CLEAN UP

Excess adhesive should be removed during the installation process.

#### 965™ Flooring and Tread Adhesive

#### 960™ Wall Base Adhesive

#### 946™ Premium Contact Adhesive

- Use a clean white cloth dampened with water to remove wet adhesive from floor covering and tools.
- Dried adhesive may require the use of denatured alcohol applied to a clean white cloth (Follow manufacturer's precautions when using denatured alcohol).

#### 930™ Two-Part Epoxy Caulking, 931™ Rapid Reaction Epoxy Caulking

- Before the adhesive sets, remove excess from flooring and clean tools with denatured alcohol applied to a clean white cloth (Follow manufacturer's precautions when using denatured alcohol).
- Do not allow adhesive to dry on the flooring surface.
- Removing dried adhesive may cause irreparable damage to the flooring surface.

## MAINTENANCE

1. Wait 72 hours after installation before performing initial cleaning. **NOTE: Installations using Power Tape may receive maintenance immediately.**
2. A regular maintenance program must be started after the initial cleaning.
3. Refer to Tarkett's Maintenance Instructions for complete details.

## ADHESIVE SELECTION CHART

Products	Adhesive	Application and Coverage		Moisture / pH Limits			Notes
		Porous	Non-Porous	RH%	CaCl <sub>2</sub>	pH	
Angle Fit Stair Treads	965 Flooring and Tread Adhesive	1/16 x 1/16 x 1/16 SQ 125 – 150 sq. ft. per gallon	1/16 x 1/16 x 1/16 V 150 – 175 sq. ft. per gallon	90%	7 lbs.	9	The 965 adhesive is sensitive to substrate porosity. Determine substrate porosity and follow the adhesive label instructions regarding porous and non-porous substrate drying times prior to the installation.
Angle Fit Stair Treads Risers	Power Tape	N/A	N/A	80%	5 lbs.	9	<b>MUST NOT</b> be used to adhere the nose to angled back risers
Riser	960 Wall Base Adhesive	1/8 x 1/8 x 1/8 SQ 4" = 200-250lf. 6" = 100-150lf. 2.5" = 300-350 lf.	USE 946 PREMIUM CONTACT ADHESIVE	N/A	N/A	N/A	<b>MUST NOT</b> be used to adhere the nose to the angled back risers.
Angle Fit Stair Tread Nose Riser Stringers	946 Premium Contact Adhesive	Applied with Brush or Roller 1 qt. unit 24 – 36 sq. ft. 1 gal. unit 144 – 215 sq. ft.	Applied with Brush or Roller 1 qt. unit 24 – 36 sq. ft. 1 gal. unit 144 – 215 sq. ft.	80%	5 lbs.	9	Refer to Adhesive Application Section 3.b. for when to use 946. Coverage based on applying to both sides.
Angle Fit Stair Tread Nose	930 Two-Part Epoxy Caulking	13.5 ounce Cartridge with ¼" Bead = 50 lf.	13.5 ounce Cartridge with ¼" Bead = 50 lf.	N/A	N/A	N/A	Refer to Adhesive Application Section 3.c. for when to use.
Angle Fit Stair Tread Nose	931 Rapid Reaction Epoxy Caulking	13.5 ounce Cartridge with ¼" Bead = 50 lf.	13.5 ounce Cartridge with ¼" Bead = 50 lf.	N/A	N/A	N/A	Refer to Adhesive Application Section 3.c. for when to use.

