

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 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 - YouTube](https://youtu.be/yda14mm0nVc)
[\(https://youtu.be/yda14mm0nVc\)](https://youtu.be/yda14mm0nVc)

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

Included on 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 and 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

Tarkett cannot accept responsibility for any loss or damage that may result due to processing or working conditions and/or workmanship outside our control. Users are advised to confirm the suitability of this product by their own tests.

STORING ALL PRODUCTS & ADHESIVES	PRE-INSTALLATION
Stack cartons squarely on top of one another, do not over stack cartons and protect corners from damage by tow-motors and other traffic. NOTE: Do not flex, bend, or stand cartons on end. Never double stack pallets.	Room temperature must be maintained between 65°F (18.3°C) and 85°F (29.4°C) with ambient relative humidity between 40% and 60% for 48 hours prior to, during the entire installation, and 48 hours after installation. NOTE: Permanent, operational HVAC systems are highly recommended. If alternate system is utilized, it must provide proper control of both temperature and humidity for the above stated time durations.
Store on a dry, flat, level surface.	Site-condition flooring, accessories, and adhesives 48 hours prior to installation. The location selected for site-conditioning must be either the room where the flooring will be installed or have similar ambient temperature and relative humidity readings as the room where the flooring will be installed.
Maintain temperature between 65°F (18.3°C) and 85°F (29.4°C).	In areas exposed to intense or direct sunlight, protect the product by covering the light source during site-conditioning, installation, and adhesive curing periods. If exposure to intense or direct sunlight will continue after the installation and adhesive curing period, refer to adhesive chart below.
Maintain relative humidity between 40 – 60%.	Inspect all flooring material to verify accuracy of order as well as for any damage, visual defects, and satisfactory color match. Notify an authorized Tarkett Distributor or Representative prior to installation if any defects are found. NOTE: Tarkett will not pay labor costs claimed on installed materials with visual defects.
Tarkett products are recommended for installation in Indoor, Climate-Controlled spaces only. NOTE: Exposure to excessive UV light can result in fading, degradation, and/or color variation.	

GENERAL SUBSTRATE PREPARATION

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 36" piece and remain in place for at least 72 hours and then evaluated for bond strength to the substrate.

A **porosity test** must be performed on the substrate to determine which installation method (porous or non-porous) will be required. Refer to **ASTM F3191 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring**

Substrate Construction	Requirements
All Staircases	Caution: Do not install stair treads in areas that are exposed to grease, oil, or animal fats. For these areas, we recommend Tarkett Defiant Oil and Grease Resistant Treads.
	Permanently dry, clean, smooth, and structurally sound

(All Staircases Cont.)	Free of all dust, loose particles, solvents, paint, grease, oil, wax, alkali, sealing/curing and parting compounds, old adhesive, and any other foreign material, which could affect the installation and adhesive bond to the substrate. All substrate contaminants must be mechanically removed prior to the installation of the flooring DO NOT use liquid solvents or adhesive removers, DO NOT use oil-based sweeping compounds NOTE: Permanent and non-permanent markers, pens, crayons, paint, or similar marking tools used to mark the substrate or back of the resilient flooring material will cause migratory staining that is not covered by the warranty.
	Minimum substrate temperature must be 60°F (15.6°C) and must be within 5°F (2.8°C) of ambient temperature
	Substrate temperature must be a minimum of 10°F (5.6°C) higher than the dew point temperature NOTE: Dew point calculators are available online. If your substrate is not 10°F (5.6°C) above the dew point, contact Technical services at (800) 899-8916
	AT THE TIME OF INSTALLATION: Testing the substrate with a Tramex moisture encounter meter (refer to ASTM F2659) is recommended due to possible issues related to topical moisture from dew point conditions. Substrate surface readings must not exceed 4.0%, if above 4.0%, contact Tarkett Technical Services prior to beginning installation. If these conditions are not properly addressed, the open and working times, bond strength, and setting of the adhesive may be affected.
	Fill all depressions, dormant cracks, dormant saw cuts (control joints), and other surface irregularities with a good quality, cement-based underlayment patching compound appropriate for this purpose.
Existing Flooring	Remove all existing, resilient flooring materials and adhesives mechanically prior to installation of Tarkett flooring NOTE: Refer to the Resilient Floor Covering Institute's (RFCI's) Recommended Work Practices for Removal of Existing Resilient Flooring for best work practices CAUTION: Some resilient flooring products and adhesives contain "asbestos fibers," and special handling of this material is required.
Concrete	Constructed as recommended by the American Concrete Institute's (ACI) 302.2 <i>Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials</i> NOTE: Refer to ACI 302.2 for recommended drying times for newly poured concrete.
	Prepared in accordance with ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
	NOTE: The use of a high moisture and alkali resistant cementitious underlayment may be required. Contact a cementitious underlayment manufacturer for best recommendations.
	DO NOT install Tarkett flooring over expansion joints. 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 substrate conditions. DO NOT install Tarkett flooring directly over moving cracks or joints in the substrate. Contact a cementitious patch manufacturer to meet specific substrate conditions.
	Test for pH in accordance with ASTM F3441 Standard Guide for Measurement of pH Below Resilient Flooring. Acceptable pH limits can be found in the adhesive section at the end of this document, on the adhesive label, and in the adhesive specifications found online at www.tarkett.com . Test results must not exceed the limits of the adhesive; if they do, the installation must not proceed until the problem has been corrected.
Wood	Underlayment grade plywood that is smooth, free of knots or voids, and a fully sanded face. DO NOT use preservative treated, fire-retardant plywood as these may be manufactured with resins or adhesives that can discolor the flooring NOTE: Do not install over OSB (Oriented Strand Board), particle board, chipboard, lauan, cementitious tile backer boards, or composite type underlayments. DO NOT install over wood floors in direct contact with concrete substrates or installed over sleeper systems.
	Meet local and national building codes. Refer to ASTM F1482 Standard Practice for Installation and Preparation of Panel Type Underlayments to receive Resilient Flooring for additional information.
	Countersink nail heads and fill depressions, joints, cracks, gouges, and chipped edges with a good quality, cement based patching compound designed for this purpose
Terrazzo & Ceramic	Thoroughly sand to remove all glaze and wax
	Remove or replace all loose tiles and clean the grout lines
	Use a good quality, cement-based leveling compound to fill all grout lines and other depressions
Steel	NOTE: Follow all <u>non-porous</u> installation instructions
	Mechanically abrade to assist with adhesive bond
	Fully clean to remove all dirt, rust, and other contaminants
	Prime with a rust inhibitor

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. **NOTE: In cases where the staircase is the same width as Tarkett Stair Treads, Nosings, Risers, and Stringers, order the next size up to allow for proper installation.**
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.

NOTE: In conditions where an uninstalled stair tread appears to have a wavy nose, press the nose towards the back of the tread with consistent pressure along the entire length of the nose. Do not smash, stand-on or damage the nosing. The use of a small hand roller may assist in this process. This process will create a sharper and more consistent angle which will allow for greater compression at the nose during installation. Dry fit the tread, ensuring it is seated all the way back to the stair substrate. If the wavy appearance is still visible, apply heat to the back of the entire nose to a surface temperature of 120-150F (48.8 – 65.6C) using a commercial heat gun, and repeat previous step pressing the nose towards the tread with consistent pressure and dry fit against the stair substrate. When installing rubber stair treads that are 6' feet in length or greater onto angled-back stairs, it may be necessary to warm the stair treads using a commercial heat gun in ALL SITUATIONS if the uninstalled stair tread appears to have a wavy nose. After this process, install the treads as recommended by pressing the nose tight against the stair substrate. Note: This process is not a substitute for using the recommended stair tread template detailed below (steps 3.b. below) to determine the angle of the nosing. This process is not a substitute for situations when the use of 946 Premium Contact Adhesive is required.

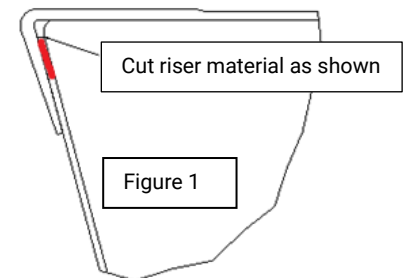
ANGLE FIT STAIR TREAD AND OPTIONAL RISER INSTALLATION

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).

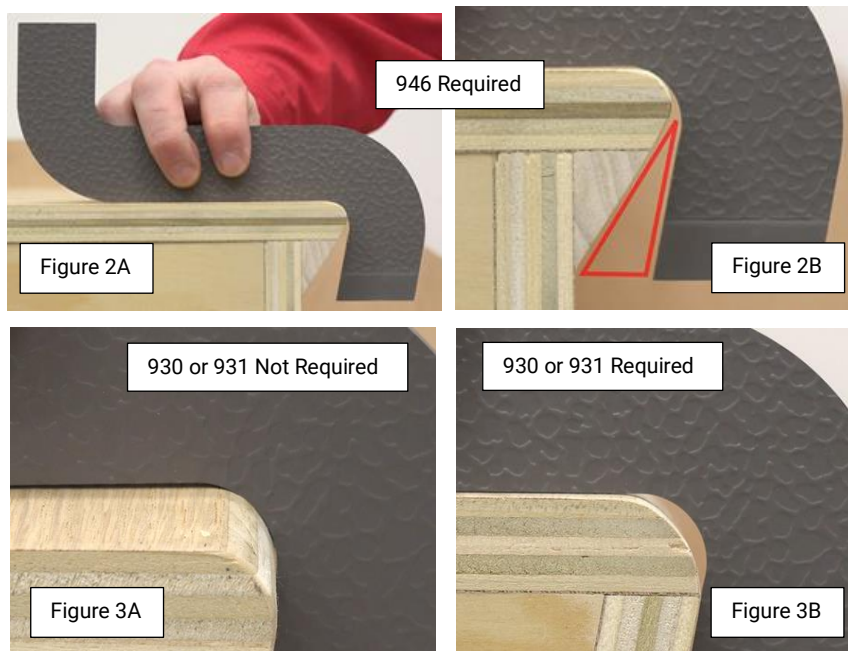


3. Adhesive Application:

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 (methyl hydrate) or 70% isopropyl alcohol to remove any contaminants which may interfere with the adhesive bond. (Follow manufacturer's precautions when using these chemicals.)
- 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 either Tarkett 930 Two-Part Epoxy Caulking Compound 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 either 930 Two-Part Epoxy Caulking Compound 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

- Prior to applying Power Tape, wipe the back of the tread and nosing with denatured alcohol (methyl hydrate) or 70% isopropyl alcohol to remove any contaminants which may interfere with the adhesive bond. (Follow manufacturer's precautions when using these chemicals.)
- 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 (methyl hydrate) or 70% isopropyl 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.
- Apply the 9-1/2" wide strip of Power Tape approximately 1/2" back from the internal angle of the stair tread nose.
- 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.
- For a step surface nosing in need of repair or with a radius greater than 1/2" (12.70mm) utilize either Tarkett 930 Two-Part Epoxy Caulking Compound or 931 Rapid Reaction Epoxy Caulking (see figures 3A & 3B). Refer to the provided Stair Tread Template located on the tread carton. Gun an adequate amount of Tarkett Epoxy Caulking Compound 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.**
- 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.**
- 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.
- 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.
- Make certain that the nosing portion of the stair tread is tight against the step nosing.
- 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.
- 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

- 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.
- 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.
- 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 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 Compound and/or 946 Premium Contact Adhesive were used. **Note:** Installations using the Power Tape method may receive traffic immediately following post-installation clean up. Installations utilizing the 931 Rapid Reaction Epoxy Caulking may receive foot traffic after 2 hours.
- 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 (methyl hydrate) or 70% isopropyl alcohol applied to a clean white cloth (Follow manufacturer's precautions when using these chemicals).

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

- Before the adhesive sets, remove excess from flooring and clean tools with denatured alcohol (methyl hydrate) or 70% isopropyl alcohol applied to a clean white cloth (Follow manufacturer's precautions when using these chemicals).
- 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.

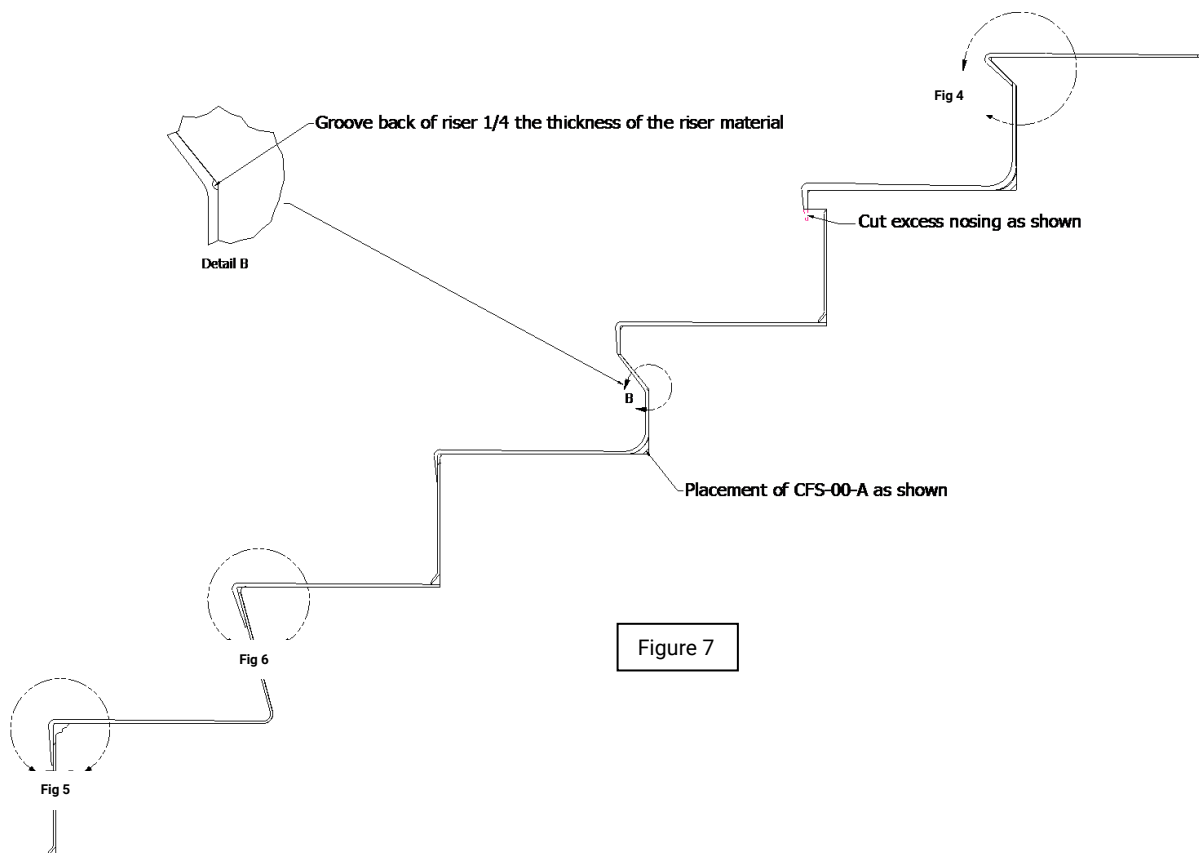
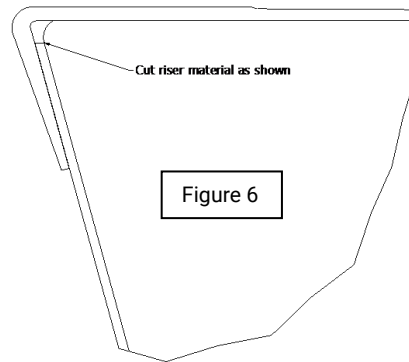
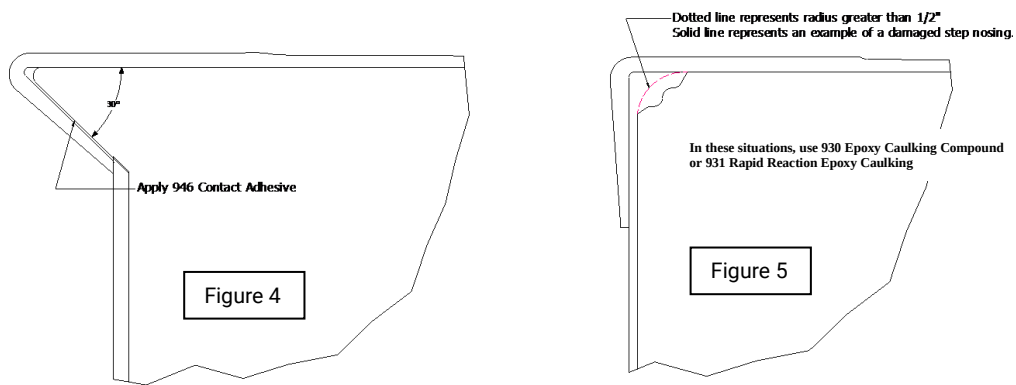
ADHESIVE SELECTION CHART

Only Tarkett adhesives are recommended for use with Tarkett products. When used as recommended, Tarkett adhesives are guaranteed by the limited warranty of the flooring product.

A porosity test must be performed on the substrate to determine which installation method (porous or non-porous) will be required. Refer to ASTM F3191 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring.

A pH test must be performed in accordance with ASTM F3441 Standard Guide for Measurement of pH Below Resilient Flooring

Products	Adhesive	Application and Coverage		Moisture / pH Limits			Notes
		Porous	Non-Porous	RH%	CaCl ₂	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	N/A	N/A	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	N/A	N/A	9	MUST NOT 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" = 200-250 lf. 6" = 100-150 lf. 2.5" = 300-350 lf.	USE 946 PREMIUM CONTACT ADHESIVE	N/A	N/A	N/A	MUST NOT be used to adhere the nose to the angled back risers.
Stair Tread Nose Riser	946 Premium Contact Adhesive	Applied with Brush or Roller		N/A	N/A	9	Refer to Adhesive Application Section 3.b. for when to use 946. Coverage based on applying to both sides.
		1 qt unit 24 – 36 sq. ft.	1 qt unit 24 – 36 sq. ft.				
		1 gal. unit 144 – 215 sq. ft.	1 gal. unit 144 – 215 sq. ft.				
Stair Tread Nose	930 Two-Part Epoxy Caulking	13.5-ounce Cartridge with ¼" (6mm) Bead = 50 lf. (15.2 m)	13.5-ounce Cartridge with ¼" (6mm) Bead = 50 lf. (15.2 m)	N/A	N/A	N/A	Refer to Adhesive Application Section 3.c. for when to use 930.
Stair Tread Nose	931 Rapid Reaction Epoxy Caulking	13.5-ounce Dual Cartridge with ¼" Bead = 50 lf.	13.5-ounce Dual Cartridge with ¼" Bead = 50 lf.	N/A	N/A	N/A	Refer to Adhesive Application Section 3.c. for when to use 931.



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