INSTALLATION & MAINTENANCE INSTRUCTIONS

FINISHING ACCESSORIES

Powertape™ Wheeled Traffic Transitions

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.

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 of our control. Users are advised to confirm the suitability of this product by their own tests.

NOTE: Tarkett recommends that the installation of new flooring material 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 flooring.

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 65ºF (18.3ºC) and 85ºF (29.4ºC) with ambient relative humidity between 40% and 60% for 48 hours prior to, during the entire installation, and 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 65ºF (18.3ºC) and 85ºF (29.4ºC).	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 for labor or material 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 SUBFLOOR PREPARATION

An adhesive bond test must be performed per **ASTM F3311** *Standard Practice for Mat Bond Evaluation of Performance and Compatibility for Resilient Flooring System Components Prior to Installation* and 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 Substrates	Permanently dry, clean, smooth, and structurally sound
	The finished substrate must be flat to tolerance as specified. If not otherwise specified, refer to **ASTM F710** *Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring*, which requires the substrate to be flat to within the equivalent of 3/16” in 10’ (4.75mm in 3.05m)
	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 60ºF (15.6ºC) and must be within 5ºF (2.8ºC) of ambient temperature

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(All Substrates Cont.)	Substrate temperature must be a minimum of 10ºF (5.6ºC) higher than the dew point temperature **NOTE: Dew point calculators are available online. If the substrate is not 10ºF (5.6ºC) 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 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 *Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials* **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 moisture in accordance with: **ASTM F2170** *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes* ***-OR-*** **ASTM F1869** *Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. Acceptable moisture 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. **NOTE: Following ASTM F2659 *Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-destructive Electronic Moisture Meter* can provide qualitative information prior to performing ASTM F2170 or ASTM F1869.**
	Test for pH in accordance with **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.
	MOISTURE MITIGATION If the moisture and pH test results exceed the limits of the adhesive, the installation must not proceed until the problem has been corrected. Tarkett does not recommend or warrant any product or procedure for the remediation of high moisture in concrete substrates. There are several companies that manufacture products suitable for moisture remediation. Tarkett recommends: • Contact Moisture Remediation product manufacturer and supply testing results. • Follow the remediation recommendation provided using products that meet **ASTM F3010** *Standard Practice for Two Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Flooring Systems* **ASTM F3513** *Standard Practice for Single Component, Fluid-Applied Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings.* • Cap the moisture remediation system with a cementitious-based product per the moisture remediation system manufacturer's recommendations for primer, thickness, drying time, etc. • Install Tarkett flooring over the cementitious-based capping product following our standard installation instructions.

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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.**
	Minimum 1" (25.4mm) overall thickness, Double Floor wood construction in compliance with **ASTM F1482** *Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring* **NOTE: Single Floor Wood Construction substrates and existing Tongue and Groove strip wood** must be covered with an APA approved underlayment plywood. • For single floor wood construction and strip wood floors with a face width of 3" (76mm) or less, use minimum ¼ " (6.4 mm) thick underlayment panels. • For strip wood floors with a face width wider than 3" (76mm) face width, use minimum ½" (13mm) thick underlayment panels.
	Minimum 18" (47cm) of cross-ventilated space between the bottom of joists and ground, and exposed earth spaces must be sealed with a polyethylene moisture barrier
	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 non-porous installation instructions**
	Mechanically abrade to assist with adhesive bond
	Fully clean to remove all dirt, rust, and other contaminates
	Prime with a rust inhibitor
Radiant Heat	Must be embedded in concrete a minimum of 2" below the surface of the substrate
	Check the manufacturer of the radiant heat system to ensure it is safe for use with resilient flooring
	Concrete surface must never exceed 85ºF (29.4ºC)
	24 hours prior to install, lower the thermostat to a minimum of 65ºF (18.3ºC). Maintain this temperature throughout installation and for 48 hours after completion
	48 hours after installation, gradually increase the thermostat in increments of 5º every twenty-four hours, never exceeding 85ºF (29.4ºC)

INSTALLATION

1. **Wheeled Traffic Transition Installation:**

   a. All Tarkett's Wheel Traffic Transitional Moldings are designed to be topset after the flooring materials are fully installed.

   b. When transitioning from one flooring surface to another, leave a 1-3/4" (4.45 cm) gap on standard 2-1/2" wide profiles and a 3-1/4" (8.26 cm) gap on 4" wide profiles between the two flooring materials.

   c. Loose lay the wheeled traffic transition into the channel between the two flooring materials, abut it snugly against the wall or adjoining piece of transition, and pencil mark the exposed end for initial location.

   d. Next, measure back from the pencil line 1/4" (6.35 mm) and place another pencil line parallel to the initial mark. This line will be the "final installed position" of the transitional profile.

   e. After determining the final installed position of the transition, remove the profile from the channel; wipe the back of the profile with denatured alcohol (methyl hydrate) or 470% to remove any contaminants picked up during handling, and apply a 1-1/2" wide strip(s) of Power Tape to the back of the profile. Use a single strip on standard 2-1/2" wide wheeled traffic transitional profiles and two strips on 4" wide profiles.

   f. Thoroughly roll the tape onto the back of the profile prior to final placement and installation.

   g. Reposition the wheeled traffic transitional profile back into the channel. Peel back a foot of the release paper from each end of the profile. Abut the profile firmly against the wall or previously installed piece and press firmly into place.

   h. On the opposite end of the profile, align the end of the profile with the second line or the "final installed position" and firmly press the profile into place.

   i. After installing a one-foot section on each end of the profile, continue to install the profile by alternating from end to end until the profile is completely installed. Upon completion of the installation, thoroughly roll with a small hand roller to ensure proper adhesion to the substrate.

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MAINTENANCE

1. Do not perform any maintenance on the product for 24 hours after installation is completed.
2. Thoroughly sweep or vacuum the entire surface area to remove all loose dirt and grit.
3. Prepare a cleaning solution by mixing 1 oz. to 4 oz. of a neutral detergent (pH of 7-8) per gallon of warm water. The dilution selected depends on light to heavy soil conditions.
4. Scrub the resilient molding surface with the solution using a clean cloth or sponge.
5. Rinse with clean cold water and allow the product to thoroughly dry.
6. If desired, one or two coats of a liquid, acrylic floor finish may be applied to improve gloss level and ease cleaning. Follow manufacturer's directions for application and drying times.

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.

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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	
Wheeled Traffic Transition	Power Tape	1.5” = 1312 lf. 3.5” = 492 lf.	1.5” = 1312 lf. 3.5” = 492 lf.	80%	5 lbs.	9	

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