

INSTALLATION INSTRUCTIONS HOMOGENEOUS SHEET FLOORING

Aria[®], iQ[®] Eminent, iQ Granit[™], iQ Granit Acoustic, Granit Safe-T[™], iQ Optima[®], iQ Optima Acoustiflor[®], Melodia[®], & Standard Plus[™]

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:

Homogeneous (HO) Sheet Flooring Installation Video (https://youtu.be/koBOnWuCLik)

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.

STORING ALL PRODUCTS & ADHESIVES	PRE-INSTALLATION				
Immediately upon delivery, rolls must be stored vertically, tightly rolled	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 after installation.				
face-out on an appropriate sturdy cardboard tube.	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 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 using the actual flooring materials and adhesive to be installed. The test areas must be a minimum of 36" x 36" 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 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 the substrate is not 10°F (5.6°C) above the dew point, contact Technical services at (800) 899-8916					
(All Substrates Cont.)	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 (RFCl'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.					
	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					
	<u>-OR-</u>					
	ASTM F1869 Standard Test Method for Measuring Moisture Vapor					
	Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.					
Congrata	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 .					
Concrete	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 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.					
	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. 					

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.

	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.					
Wood	 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					
Gypsum	Refer to ASTM F2419 Standard Practice for Installation of Thick Poured Gypsum Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring for guidelines when pouring gypsum underlayments or preparing for use as an underlayment under Tarkett flooring. Follow the gypsum underlayment manufacturer's recommendations for proper application and preparation. Refer to the product manufacturers recommendations for sealing and/or priming the finished surface.					
	When installing a product with adhesive, the gypsum surface should be capped with a cementitious underlayment. Follow the underlayment manufacturers recommendations for proper application.					
	Thoroughly sand to remove all glaze and wax					
Terrazzo & Ceramic	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					
	NOTE: Follow all non-porous installation instructions					
	Mechanically abrade to assist with adhesive bond					
Steel	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 85°F (29.4°C)					
	24 hours prior to install, lower the thermostat to a minimum of 65°F (18.3°C). Maintain this temperature throughout installation and for 48 hours after completion					
	48 hours after installation, gradually increase the thermostat in increments of 5° every twenty-four hours, never exceeding 85°F (29.4°C)					

INSTALLATION

NOTE: 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. If substrate readings are above 4.5%, 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.

1. Sheet Installation Procedure:

- a. Install rolls in sequential order following roll numbers on the labels.
- b. Reverse sheets.
- c. Cut pieces to length allowing approximately 3" (76 mm) excess for trimming.
- d. Cut the first piece to fit by freehand knife, direct scribing or pattern scribing method.
- e. Trim 1/2" (13 mm) off selvage edge on the seam side of the sheet using an edge trimmer or straight edge and knife. Cut must be perpendicular, do not angle the knife blade.
- f. Establish all relevant reference marks on the sheet and the subfloor to ensure sheets are aligned at seams and have not shifted.
- g. Position dead weight like a 100 lbs. floor roller or adhesive pails onto half of the sheet to prevent unintentional movement. Fold back the first half of the sheet.
- h. Using a straight edge and pencil or a white chalk line, mark a parallel glue line onto the substrate at the fold in the sheet. This line will serve as the guideline for straight adhesive application.

- Adhesive Application: See adhesive chart below and follow adhesive label instructions for proper use. NOTE: When using Tarkett 975 Two Part
 Urethane Adhesive or Tarkett 996 Two Part Epoxy Adhesive, the installer <u>MUST</u> work off the flooring or use kneeling boards.
 - a. Apply the adhesive to the substrate starting at the guideline established in 1.h. and working away from the guideline. Allow proper open time. NOTE: Open and working times are dependent on the ambient temperature, humidity, substrate porosity and temperature, and air movement. It is the installer's responsibility to modify the open and working time for jobsite conditions.
 - b. Ensure proper techniques are used to eliminate telegraphing of adhesive at the fold of the sheet.
 - c. Install the first half of the sheet into the adhesive and roll the flooring in both directions using a 100 pound three-section roller. Avoid allowing the weight of the roller to contact the sheet flooring closer than 6" (152 mm) from the previously established adhesive guideline (1.g.) and stay 3" (76 mm) away from the seams where the flooring sheets will overlap.
 - d. Remove the dead weight from the unglued half of the sheet and fold this half back from the substrate.
 - e. Apply adhesive carefully at the adhesive guideline to avoid overlapping previously applied adhesive and/or voids in coverage and in the remainder of the open area of the substrate. Allow proper open time. NOTE: Open and working times are dependent on the ambient temperature, humidity, substrate porosity and temperature, and air movement. It is the installer's responsibility to modify the open and working time for jobsite conditions.
 - f. Install the second half of the sheet and roll in both directions, repeating steps 2.c. above for rolling the flooring and staying 3" (76 mm) away from seams. The adhesive guideline area may be rolled at this time.

3. Seams

- a. Inspect the floor surface, especially seams, and remove any adhesive on the surface.
- b. Position all remaining sheets so that the top sheet overlaps the previous sheet by ½" to ¾" (13 mm to 19 mm). Trim ½" (13 mm) off opposite seam edge using an edge trimmer or straight edge and knife. Cut must be perpendicular, do not angle the knife blade.
- c. Recess-scribe the seam to achieve a proper fit. It may be necessary to file down the guide on the underscribes to avoid displacing adhesive along the finished seam edge.
- d. Vinyl sheet flooring must be welded using the Heat Weld or Cold Weld methods listed below.

4.a. Heat Weld Seam:

Refer to the HO Heat Weld Seam Construction and HO Heat Weld Guide tip sheets for further information.

NOTE: It is recommended to heat weld seams to provide a sterile and watertight seam. Wait a minimum of 24 hours after installation before heat welding seams. The floor may be heat welded immediately when installing with RollSmart or 901 SpraySmart (Acoustiflor only) adhesive.

- a. Recess scribe the seam with a slight gap not to exceed 1/64" (0.4mm) to help guide the router. It may be necessary to file down the guide on the underscribes to avoid displacing adhesive along the finished seam edge.
- b. Insert a scrap piece of material under the scribe mark to protect the seam edge of the first piece.
- c. Use a sharp knife to cut the seam following the scribe mark. Cut must be perpendicular, do not angle the knife blade.
- d. Remove the scrap material and seam trimmings before rolling the seam with a small hand roller.
- e. Roll the seam area with a 100 pound three-section roller.
- f. Rout approximately 2/3 of the thickness of the material. Do not rout into foam layer of iQ Optima Acoustiflor.
- g. Use Tarkett vinyl weld rod to complete the welding process.

4.b. Cold Weld Seam:

NOTE: Aria 2.0, Contract Plus, iQ Granit, Melodia 2.0, and iQ Optima CAN be cold welded:

- a. Recess scribe the seam to provide a **net** fit. It may be necessary to file down the guide on the underscribes to avoid displacing adhesive along the finished seam edge.
- b. Insert a scrap piece of material under the scribe mark to protect the seam edge of the first piece.
- c. Use a sharp knife to cut the seam following the scribe mark. Cut must be perpendicular, do not angle the knife blade.
- d. Remove the scrap material and seam trimmings before rolling the seam with a small hand roller.
- e. Roll the seam area with a 100 pound three-section roller.
- f. Wait at least 2 to 3 hours after the flooring material has been installed before applying the Tarkett Cold Weld Liquid.
- g. Refer to the Cold Weld instructions for complete Cold Weld Liquid application details.

Flash Coving:

- a. Use Tarkett CFS-00-A Cove Filler Strip.
- b. Apply 925 Resilient Flooring Adhesive to the wall area using a trowel. Apply RollSmart Fast-Drying Vinyl Flooring Adhesive to the wall area using a paint brush or 3/8" nap paint roller. Net fit the flooring material into the cove cap.
- c. Net fit the flooring material into the cove cap.
- d. Roll the coved material with a small hand roller.

6. Post Installation Floor Protection:

We recommend 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.

a. Immediately after installation:

- All traffic must be restricted for a minimum of 24 hours after installation. The floor may receive immediate traffic when installing with SpraySmart and RollSmart adhesives.
- All heavy traffic, rolling loads, pallet jacks, and furniture or appliance placement must be restricted for a minimum of 72 hours after installation.
- Flooring must be swept or vacuumed to remove loose dirt and grit prior to the application of proper floor protection. (Do not trap dirt and grit under floor protection.)
- Apply floor protection suitable for construction foot traffic such as: undyed heavy Kraft paper, Ram Board, 1/8" Masonite panels, or similar product designed for resilient floor protection.

b. 72 hours after installation:

- Areas that will receive heavy traffic, rolling loads, pallet jacks, and furniture or appliance placement must be protected with 1/4" thick Masonite or similar wood panels.
- The floor must be swept or vacuumed prior to the placement of the floor protection panels. (Lightly damp mop if necessary)

NOTE: Do not use plastic or other non-porous materials to protect the newly installed flooring that could prevent the adhesive from drying properly.

ADHESIVE CLEAN UP

Excess adhesive should be removed during the installation process.

925™ Resilient Flooring Adhesive, 901™ SpraySmart Resilient Flooring Adhesive, RollSmart™ 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.)

975™ Two-Part Urethane Adhesive, 996 Two-Part Epoxy Adhesive

- Before the adhesive sets, remove excess adhesive 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.
- 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

		Application and Coverage		Moisture / pH Limits		imits	Nata
Products	Adhesive	Porous	Non-Porous	RH%	CaCl ₂	рН	Notes
2mm HO SHEET	925 Resilient Flooring Adhesive	1/32 x 1/16 x 1/32 U 250 – 300 sq. ft. per gallon	1/32 x 1/16 x 1/32 U 250 – 300 sq. ft. per gallon			s. 9	The 925 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. Follow Adhesive Back-Rolling Instructions found online at www.tarkett.com
iQ Optima Acoustiflor iQ Granit Acoustic		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	85%	7 lbs.		
2mm HO SHEET	975 Two-Part Urethane Adhesive	1/32 x 1/16 x 1/32 U 225 – 250 sq. ft. per gallon	1/32 x 1/16 x 1/32 U 225 – 250 sq. ft. per gallon	90%	8 lbs.	9	For application in areas subject to heavy point loads, rolling loads, topical moisture, intense direct sunlight, or temperature extremes.
iQ Optima Acoustiflor iQ Granit Acoustic		1/16 x 1/16 x 1/16 V 150 – 175 sq. ft. Per gallon	1/16 x 1/16 x 1/16 V 150 – 175 sq. ft. Per gallon	3070			
2 mm HO SHEET	996 Two-Part Epoxy Adhesive	1/32 x 1/16 x 1/32 U 225 – 250 sq. ft. per gallon	1/32 x 1/16 x 1/32 U 225 – 250 sq. ft. per gallon	90%	8 lbs.	9	For application in areas subject to heavy point loads, rolling loads, topical moisture, intense direct sunlight, or temperature extremes.
iQ Optima Acoustiflor iQ Granit Acoustic		1/16 x 1/16 x 1/16 V 150 – 175 sq. ft. Per gallon	1/16 x 1/16 x 1/16 V 150 – 175 sq. ft. Per gallon	90%			
iQ Optima Acoustiflor iQ Granit Acoustic	901 SpraySmart Resilient Flooring Adhesive	150 sq. ft. per can 900 sq. ft. per carton	150 sq. ft. per can 900 sq. ft. per carton	90%	8 lbs.	10	The SpraySmart Adhesive System is unique; instructions on can must be followed. Contact Tarkett Technical Department prior to use for training.
2 mm HO SHEET	RollSmart Adhesive	3/8" Nap Paint Roller (used with a paint tray) 350 - 400 sq. ft. per gallon	3/8" Nap Paint Roller (used with a paint tray) 350 - 400 sq. ft. per gallon	95%	8 lbs.	10	Recommended for use under hospital beds. Adhesive coverage must not exceed 400 ft² / gallon. While still wet, adhesive bed should read 10 – 14 mil on wet film thickness gauge.
2 mm HO SHEET	Cold Weld Liquid	4.5 oz. tube 175 – 200 lin. ft. per tube	4.5 oz. tube 175 – 200 lin. ft. per tube	N/A	N/A	N/A	

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