

# **1. PERMANENT INSTALLATION FULL SPREAD ADHERING**

## **For all Taraflex Resilient Sheet Products**

### **1.1. ROLLS SHOULD BE STORED UPRIGHT AT ALL TIMES**

Store on clean flat solid surfaces in a controlled environment. Do not store outside.

### **1.2. PREPARATION OF SUBFLOOR**

Subfloor Preparation (General Contractor)

- The General Contractor will supply a smooth, flat concrete finish which will be achieved manually or mechanically. The slab will have a tolerance of + or - 1/8" in a 10' radius. Respect ASTM F710 "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring".
- The concrete subfloor will be cured for a minimum of at least sixty (60) days.
- The concrete floor temperature will have to be maintained at a minimum of 65°F (18°C) for one week prior, during, and permanently thereafter the installation. The concrete must be tested according to ASTM F1869 "Standard Test Method for Measuring Moisture Evaporation Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" and/or ASTM F2170 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using *In-Situ* Probes". Slab is not to exceed 5lbs/1000 sq ft/24 hrs per ASTM F1869 and not to exceed 75% RH per ASTM F2170.
- Before proceeding with any work, inspect the subfloor surface and report in writing to the Project Manager and the General Contractor any visible defects on the surface such as cracks, bumps, rough areas or variations in evenness.
- Check for grease, oil, paint, dust or any contamination remaining on the concrete subfloor.
- Before proceeding with the TARAFLEX material installation, clean the concrete surface to remove any dirt or foreign materials. Sanding of the subfloor is mandatory. It may be necessary to scarify or bead-blast concrete surface to remove existing adhesives, paint or other surface applied materials.
- The General Contractor shall patch and repair all cracks, voids and other imperfections of concrete with high strength portland cement based patching materials - Ardex K-15 or equal, approved by the manufacturer. Do not use gypsum based patching materials. If concrete is out of level then it should be properly leveled by an experienced underlayment contractor using cement based material that will provide a minimum of 3,000 psi. compressive strength and sufficiently bound to existing clean concrete surface Ardex K-15 or equal, approved by the manufacturer . After completion of sanding, patching and leveling, vacuum or sweep entire surface of concrete to remove loose dust and dirt before starting the installation of material.
- Do not bridge resilient flooring over expanding/contracting floor joints. Observe ASTM F710.

### **1.3. UNROLLING FLOORING MATERIAL**

- Installation temperature shall be at least 65°F (18°C) maintained for one week prior to and during installation.
- Mark the center starting line. Finished installation should be square to the room.
- Lay the first length of Taraflex along this chalk line and then work progressively outward, leaving a small gap (1/4" minimum) between the sheets to allow the material to relax for at least 24 hours. Before gluing, bring the loose sheets closer together leaving a gap of 1/32" (1mm). This is approximately the width of a credit card.

#### **Material inspection**

**Note:** Inspect all TARAFLEX sheets carefully to verify that correct colors, patterns, quality, and quantity have been shipped. Do not install, cut, or fit any material that has visible defects. Material that may have minor edge damage should have such damage trimmed and removed prior to installation of the sheets.

## **General installation**

TARAFLEX Sport is placed lengthwise in the facility starting at the center line unless patterns or design schemes dictate otherwise.

### **1.4. INSTALLING FLOORING MATERIAL**

The rolls are brought closer together leaving 1/32" (1 mm) between the strips before gluing.

### **1.5. ADHESIVES**

#### **1.5.1. METHODS**

##### **ACRYLIC GLUING-UP TO *5LBS* PER ASTM F1869**

- Use only a Gerflor approved adhesive.
- Respect the guidelines indicated on the pail of adhesive.
- Monitor temperature and humidity during installation.
- Once material is placed into the adhesive, immediately roll thoroughly with a 100 lb (minimum) roller.
- Prohibit traffic for a minimum of 48 hours after placement into the adhesive.

##### **POLYURETHANE METHOD UP TO *5 LBS* PER ASTM F1869**

- Use only a Gerflor approved adhesive.
- Respect the guidelines indicated on the pail of adhesive.
- To assure uniform adhesion of the entire surface, only spread a workable amount of adhesive at one time.
- Recommended trowel gauge: Only use a 1/32" x 1/16" x 1/32" trowel.
- Prior to full spread adhesion, it is recommended that an adhesion test be carried out on a small area.
- Before spreading the adhesive, stir the adhesive with a low speed mechanical mixer for approximately 2 minutes. Be sure to mix completely. This will make the adhesive easier to spread and in ensures proper uniform consistency.
- Monitor temperature and humidity during installation.
- Once material is placed into the adhesive, immediately roll thoroughly with a 100 lb (minimum) roller.
- Avoid adhesive displacement by restricting traffic.
- Prohibit traffic for a minimum of 24 hours after placement into the adhesive.

### **1.6. LAYING PROCEDURE**

- Starting from the center line and working outward, fold the sheets back halfway and apply the adhesive to the subfloor. Installer may also use the "roll" method. With the roll method, do not pre-cut material as if to be the final trim. Leave material a few inches long for trimming after placement.
- Position the first half of the sheet (or sheets) into the adhesive, and then repeat this procedure with the second half. Do not leave a partial roll of material unadhered while the other side's adhesive sets.
- Continue laying sheets by butting the edges, overlapping and double cutting through both sheets using a straight edge, trace cutting, or scribing. The goal is to produce a uniformly spaced seam for welding.
- Always double check the installation while gluing with the lights on and off. The use of light and shadow can help with determining imperfections.

## **1.7. ROLLING**

### 1.7.1. ACRYLIC GLUING

- Immediately after material is positioned into the adhesive using a 100 pound(minimum) multi-sectional roller. Roll the entire surface thoroughly.

### POLYURETHANE METHOD

Note: Rolling is done in multiple stages

- First manually remove visible bubbles with a piece of cork or a wooden board wrapped in carpet or similar material. Be careful not to displace the adhesive. Use plywood or other flat material that will disperse the installer's weight. It is recommended; until the adhesive is completely dry, to walk on the floor using plywood or similar product. Bubbles must be removed before adhesive becomes hard set.
- Second, roll the floor 1 hour later using a 100 lb minimum roller. Final rolling is done 1 hour later.
- Cross seams may need to be weighted to avoid "cupping". Use weight that will not leave permanent indentation due to adhesive displacement.

## **1.8. SEAMING OF JOINTS (HEAT WELDING METHOD)**

### 1.8.1. MECHANICAL ROUTING

- Use an electric routing machine by Leister Equipment or JANSER Company or equal, approved by manufacturer. Keep all gullies clean prior to heat welding.

### 1.8.2. MANUAL WELDING

- This must be done with a heat welding gun with variable temperature control and a speed weld nozzle by Leister Equipment Company or equal, approved by manufacturer.
- Nozzle size is 5 mm. Use only the Gerflor approved heat welding tip.

### 1.8.3. MECHANICAL WELDING (REQUIRED IN LARGE AREAS)

- This is done using a Leister Universal type automatic welding machine with a variable temperature hot air gun and a multi-outlet nozzle. Do not allow welder to operate without supervision. Prohibit traffic during welding.

\*\*\* In both installation types, do not heat weld resilient flooring for a minimum of 24 hours after the material has been placed into the adhesive.

\*\*\* Respect ASTM F1516 "Standard Practice for Sealing Seams of Resilient Flooring by the Heat Weld Method.

#### 1.8.4. FINISHING (SEAM SKIVING)

Trimming is done in two stages once the welding rod and material have completely cooled.

- Trim flush with the floor using a “moon knife or Gerflor Seam Plane (see tool list).
- After the welding rod is trimmed smooth or flush with the top surface, check the entire seam to ensure that the welding cord is bonded properly and is flush with the top wear layer.

#### 1.9 UPON COMPLETION OF THE INSTALLATION

- Visually inspect entire project for visual imperfections.
- Double check all heat welds for uniformity. Repair all imperfections prior to leaving the project.
- Ensure all exposed vertical abutments such as door jambs are cut tightly (net) and sealed with a water-proof sealant such as clear silicone or equivalent.
- At all volleyball inserts, the material must be cut neatly and cleanly to form a tight, net fit. It is recommended to apply a small 3”-4” band of urethane adhesive around the volleyball sleeve to help protect from water intrusion during maintenance. Any gaps must be repaired or filled with a permanent waterproofing sealant.
- Inspect all welds for smoothness and tightness to each side of the seam. A proper weld will be complete (with no gaps) on either side. Repair welds before leaving the project.

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