

## Table of Contents

### Section

1. Test Before Starting Installations
2. Job Site Conditions
3. Material Storage and Handling
4. Substrates
5. SHAW Adhesives
6. Installing Resilient Sheet Vinyl Products
7. Installing Resilient Tile & Plank Products
8. Maintenance
9. Warranty

## 1. TEST BEFORE STARTING INSTALLATIONS

All substrates to receive moisture sensitive floor covering must be tested for moisture.

### CONCRETE SUBSTRATES:

- Calcium Chloride – Tests must be performed per the latest edition of ASTM F 1869 or Internal Relative Humidity – Tests must be performed per the latest edition of ASTM F 2170.

New and existing concrete subfloors should meet the guidelines of the latest edition of ACI 302 and ASTM F 710, “Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring” available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428; 610-832-9585; <http://www.astm.org>.

- a. Substrates shall be smooth, structurally sound, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening/ curing compounds, sealers and other foreign material that might prevent adhesive bond.
- b. Concrete floors shall be flat and smooth within 1/8” in 6 feet or 3/16” in 10 feet.
- c. F-Number System: Overall values of FF 36/ FL 20 may be appropriate for resilient floor coverings.
- d. ASTM 1869 - Three calcium chloride tests should be conducted for areas up to 1000 ft<sup>2</sup>. One additional test required per additional 1000 ft<sup>2</sup>.
- e. ASTM 2170 - IRH (Internal Relative Humidity Test), three tests should be conducted for areas up to 1000 ft<sup>2</sup>. One additional test, for each additional 1000 ft<sup>2</sup>.
- f. Moisture vapor emission rate
  - **Shaw 5100 Adhesive - may not exceed - 5 lb. /1000 ft<sup>2</sup>/24 hours or 80% R.H.**
  - **Shaw 4100 Adhesive - may not exceed 8 lb. /1000 ft<sup>2</sup>/24 hours or 87% RH.**

Use only Portland based patching and leveling compounds. Do not install Shaw resilient flooring over gypsum based patching and/or leveling compounds.

### LIGHTWEIGHT CONCRETE:

Internal Relative Humidity – Tests must be performed per the latest edition of ASTM F 2170.

- a. Three internal relative humidity tests should be conducted for areas up to 1000 ft<sup>2</sup>. One additional test, for each additional 1000 ft<sup>2</sup>.
- b. Internal relative humidity rate may not exceed 80%. Per ASTM F 710.
- c. Surface must be dry, clean, smooth, free of all dust, and structurally sound.

## WOOD SUBSTRATES:

A moisture test is required using a pin-type moisture meter. The maximum allowable moisture content must not exceed 15%.

- a. Wood subfloors must be structurally sound and in compliance with local building codes.
- b. Wood subfloors should be suspended with a minimum of 18" of well ventilated air space below.
- c. Crawl spaces must have a vapor barrier covering the ground.
- d. Wood subfloors directly fastened to concrete, or sleeper construction, are not recommended.
- e. APA rated Sturdi-I-Floor panels are designed as combination subfloor/underlayment, but exposure to construction conditions including weather may necessitate installation of a 1/4" underlayment panel prior to resilient flooring installation.
- f. SHAW resilient flooring is not recommended directly over fire-retardant treated plywood or preservative treated plywood. The materials used to treat the plywood may cause problems with adhesive bonding. An additional layer of APA rated 1/4" thick underlayment should be installed.

## TEMPERATURE - AMBIENT:

Controlled environments are critical. Fully functional HVAC systems are the best way to ensure temperature and humidity control.

- Do not install resilient flooring products until the work area can be temperature controlled.
- Minimum installation temperature is 65°F with a maximum installation temperature of 100°F.

## TEMPERATURE – RADIANT HEAT:

Radiant heated substrates must not exceed 85°F (29°C) surface temperature.

- Several days prior to installing resilient products over newly constructed radiant heated systems, make sure the radiant system has been on and operating at maximum temperature to reduce residual moisture within the concrete.
- Three days prior to installation lower the temperature to 65 degrees, 24 hours after installation gradually increase the temperature in increments of 5° F to avoid overheating.
- After continuous operation of the radiant system, ensure the surface of the floor does not exceed 85oF.
- Use of an in-floor temperature sensor is recommended to avoid overheating.

## pH:

Concrete floors must be tested per the latest edition of ASTM F 710.

- pH reading must not exceed 10.0.
- Readings below 7.0 and in excess of 10.0 affect resilient flooring and adhesives.
- Rinsing the surface with clear water is the best way to lower alkalinity. "DAMP MOP"

**Note: It may not be the floor covering installer's responsibility to conduct the tests. It is, however, the floor covering installer's responsibility to make sure these tests have been conducted and that the results are acceptable prior to installing the floor covering. When moisture tests are conducted, it indicates the conditions only at the time of the test.**

## 2. JOB SITE CONDITIONS

- a. It is recommended that resilient floor covering installation shall not begin until all other trades are completed.
- b. Areas to receive flooring shall be clean, fully enclosed, with the permanent HVAC set at a uniform temperature range of 65°F to 85°F and maintained following the installation.
- c. Areas to receive flooring should be adequately lighted during all phases of the installation process.

- d. Floors shall be smooth, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening compounds, and sealers.
- e. Working and open times vary based on job conditions, substrate, temperature, and humidity.

### 3. MATERIAL STORAGE AND HANDLING

- a. Store all rolls standing upright; do not lay rolls down for long periods.
- b. When more than one roll of a color is being installed, all material should be from the same batch and the rolls must be installed in consecutive order. If material from more than one batch is to be used, the job should be laid out so that different batch numbers are not installed side by side.
- c. Flooring material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior to installation.
- d. Store cartons of tile or plank products flat and squarely on top of one another. Preferably, locate material in the “center” of the installation area (i.e. away from vents, direct sunlight, etc.)

### 4. SUBSTRATES

All substrates to receive resilient flooring shall be dry, clean, smooth, and structurally sound. They shall be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, curing, sealing, hardening, or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and other foreign materials that might prevent adhesive bond.

#### WOOD SUBSTRATES

- a. Double-layered APA rated plywood subfloors should be a minimum 1” total thickness, with at least 18” well ventilated air space beneath. Insulate and protect crawl spaces with a vapor barrier.
- b. Do not install over sleeper construction subfloors or wood subfloors applied directly over concrete.
- c. Underlayment panels can only correct minor deficiencies in the sub-floor while providing a smooth, sound surface on which to adhere the resilient flooring.
- d. Any failures in the performance of the underlayment panel rests with the panel manufacturer and not with Shaw Industries, Inc..
- e. It is recommended that your chosen APA underlayment grade panels be designed for installation under resilient flooring and carry a written warranty covering replacement of the entire flooring system.
- f. Always follow the underlayment manufacturer’s installation instructions.

#### STRIP – PLANK WOOD FLOORING

Due to expansion and contraction of individual boards during seasonal changes, SHAW recommends 1/4” or thicker APA rated underlayment panels be installed over these types of subfloors.

#### CONCRETE

- a. New or existing concrete subfloors must meet the guidelines of the latest edition of ACI 302 and ASTM F 710, “Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring”.
- b. On or below-grade slabs must have an effective vapor retarder directly under the slab.
- c. Wet curing 7 days is the preferred method for curing new concrete.
- d. Curing compounds (DO NOT USE). If present they can interfere with the bond of the adhesive to the concrete.
- e. Remove curing compounds 28 days after placement, so concrete can begin drying.
- f. Concrete floors shall be flat 3/16” in 10 ft.
- g. F-Number System: Overall values of FF 36/ FL 20 may be appropriate for resilient floor coverings.
- h. Shaw 5100 - Moisture vapor emission rate may not exceed - 5 lb. /1000 ft<sup>2</sup>/24 hours or 80% RH. Shaw 4100 adhesive Moisture vapor emission may not exceed - 8 lb. /1000 ft<sup>2</sup>/24 hours or 87% RH.

## LIGHTWEIGHT CONCRETE

All recommendations and guarantees as to the suitability and performance of lightweight concrete under resilient flooring are the responsibility of the lightweight concrete manufacturer. The installer of the lightweight product may be required to be authorized or certified by the manufacturer. Correct on-site mixing ratios and properly functioning pumping equipment are critical. To ensure proper mixture, slump testing is recommended.

- a. Lightweight aggregate concretes having densities greater than 90 lbs. per cubic foot may be acceptable under resilient flooring.
- b. Concrete slabs with heavy static and/or dynamic loads should be designed with higher strengths and densities to accommodate such loads.
- c. Surface must be permanently dry, clean, smooth, and free of all dust and structurally sound.

### **WARNING! DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEADBLAST OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVES OR OTHER ADHESIVES.**

These products may contain either asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm.

Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of material.

See current edition of the Resilient Floor Covering Institute (RFCI) publication Recommended Work Practices for Removal of Resilient Floor Coverings for detailed information and instructions on removing all resilient covering structures. For current information go to [www.rfci.com](http://www.rfci.com).

## RESILIENT FLOOR COVERING

- a. Must be single layered, non-cushion backed, fully adhered, and smooth.
- b. Show no signs of moisture or alkaline.
- c. Waxes, polishes, grease, and grime must be removed.
- d. Cuts, cracks, gouges, dents and other irregularities in the existing floor covering must be repaired or replaced.

**Note:** The responsibility of determining if the existing flooring is suitable to be installed over rests solely with installer/flooring contractor on site. If there is any doubt as to suitability, the existing flooring should be removed or an acceptable underlayment installed over it. Installations over existing resilient flooring may be more susceptible to indentation.

## POURED FLOORS (Epoxy, Polymeric, Seamless)

- a. Must be totally cured and well bonded to the concrete.
- b. Must be free of any residual solvents and petroleum derivatives.
- c. Waxes, polishes, grease, and grime must be removed.
- d. Cuts, cracks, gouges, dents and other irregularities in the existing floor covering must be repaired or replaced.
- e. Texture must be smooth.
- f. Show no signs of moisture or alkaline.

## OLD ADHESIVE RESIDUE

- a. If the adhesive residue is asphalt-based (cut-back) or any other type of adhesive is present, it must be dealt with in one of two ways:
  - It may be mechanically removed such as: bead blasting or scarifying;
  - A self – leveling Portland based underlayment may be applied over it. Check with the underlayment manufacturer for suitability, application instructions and warranties.
- b. Never use solvents or citrus adhesive removers to remove old adhesive residue. Solvent residue left in and on the sub-floor may affect the new adhesive and the new floor covering.

## WARNING!

**Warning regarding complete adhesive removal: some solvent based ‘cut-back’ asphalt-based adhesives may contain asbestos fibers that are not readily identifiable. Do not use power devices, which can create asbestos dust in removing these adhesives. The inhalation of asbestos dust may cause asbestosis or other serious bodily harm.**

## 5. SHAW ADHESIVES

### **SHAW 4100 - solvent free sheet, plank, tile, and RexCourt adhesive.**

Shaw 4100 solvent free adhesive is an installer friendly, premium high strength (non-staining) acrylic adhesive, designed to permanently install SHAW flooring. SHAW 4100 may be used on all grades of concrete on above or below grade in the absence of excess moisture, as well as suspended approved wood floors. SHAW 4100 may also be used for installing over existing, non-cushioned resilient flooring that has been prepared according to manufacturer’s recommended methods. SHAW 4100 is non-flammable, water (87% RH), 8 lb. /1000 ft<sup>2</sup>/24 hours and alkali (10 pH) resistant and freeze-thaw stable. SHAW 4100 has excellent resistance to plasticizer migration and sets to a tough permanent bond. Zero (calculated) VOC’s. CRI Green Label Plus Approved. SHAW 4100 must be used to receive Shaw’s exclusive 5 year under bed warranty.

### **SHAW 5100-SD black, solvent free StaticPulse tile adhesive – 5lbs, per 24hr/100 sq. ft., 80% R.H max**

SHAW 5100-SD Solvent Free Static Dissipative Floor Covering Adhesive is a premium latex adhesive, designed to permanently install dimensionally stable Static Dissipative commercial grade PVC sheet flooring or StaticPulse. SHAW 5100-SD may be used on all grades of concrete on above or below grade in the absence of moisture, as well as suspended approved wood floors (APA). This adhesive is non-flammable, water and alkali resistant and freeze- thaw stable. SHAW 5100-SD has excellent resistance to plasticizer migration and sets to a tough permanent bond.

## 6. INSTALLING RESILIENT SHEET VINYL PRODUCTS

### **Naturelife™ Biolife™ Solace™**

#### **General:**

- a. Ensure that moisture tests have been conducted and that the results do not exceed **8.0** lbs. per 1000 sq. ft. in 24 hours as per ASTM F-1869, or **87%** In-Situ relative humidity (with 4100) when tested according to ASTM F-2170.
- b. pH of concrete sub-floor surface is no greater than **10**.
- c. The permanent HVAC system turned on and set to a minimum of **68°F (20°C)** for a minimum of **72** hours prior to, during and after installation. After the installation, the temperature should not exceed **100°F**.
- d. Flooring material and adhesive must be acclimated to the installation area for a minimum of **48** hours prior to installation.
- e. Use only Shaw approved flooring adhesives.
- f. Use a 1/32” Deep x 1/16” Wide x 1/32” Apart (U) notch trowel only.
- g. Material should always be visually inspected prior to installations. Any material installed with visual defects will not be considered a legitimate claim as it pertains to labor cost.**

- h. Shaw's sheet products are dimensionally stable. They will not shrink or compress. If cut too full, it may result in a bubble.
- i. Install all cuts and rolls in consecutive sequence.
- j. **Naturelife™, Solace™**, - Do **not** reverse sheets for seaming.
- k. **Biolife™** - Reverse sheets for seaming
- l. Ensure that all recommendations for sub-floor and jobsite conditions are met prior to beginning the installation. Once the installation has started, you have accepted these conditions.**

## CUTTING AND FITTING SHEETS

In most cases, a qualified installer will be able to freehand knife the material in areas where base or trim moldings will be installed after the installation is completed.

- a. **Naturelife™** and **Solace™** - Do not reverse sheets for seaming.
- b. **Biolife™** - Reverse sheets for seaming
- c. Cut the required length off the roll, including enough to run up the wall 2" at either end.
- d. Push the length of the sheet as close to the starting wall as possible, letting the extra length run up the wall at the far end.
- e. Set the scribes to a minimum of 3/8" more than the greatest distance between the wall and the flooring material. Freehand knife or scribe the shape of the wall onto the flooring.
- f. Push the fitted sheet lightly against the wall.
- g. Continue freehand knifing around the room.

## Flash Cove Installations

- a. Flash coving is an extension of the sheet flooring up the wall to form a wall base.
- b. Seams in the flash coved areas should be treated the same as seams throughout the rest of the installation.
- c. 4" – 6" flash coving is common. For all heights in excess of 6" check applicable local building codes.
- d. Use Shaw 4100 in flash coved areas. Use a brush or roller to apply Shaw 4100 to the wall and cove stick area.
- e. Shaw 4100 adhesive must be allowed some open time, usually about 10 - 15 minutes.
- f. After fitting material into adhesive, use a hand roller to assure contact with the adhesive.

## Seaming

Seams may be cut by either overlap and double cut or by straight edging or edge trimming one side, and recess scribing the second sheet.

1. **Recess scribe method** - On non-patterned material, trim approximately 1/2" off one salvage edge of seam with a straightedge and sharp knife or edge trimmer. Cut second sheet with proper extra length. Position second sheet with a 1/2" – 1" overlap over first sheet at the seam. Set recess scribes so that the seam will have a slight gap, about half the thickness of a razor blade. If cut too full, it will result in bubbles or ridges. Recess scribe seam. Repeat for as many sheets as necessary to complete the area. Sheets should be installed that day.
2. **Double cut method** – Overlap the salvage edges to align the pattern width and length. On Naturelife™ wood look align the bevel edge of the planks. Place a 4" wide scrap of material under the seam area. Place a straight edge directly over the beveled edge of the plank, and using a new razor blade, hold the knife straight up and down and cut through both pieces in one cut.
  - a. Lap back all overlapped sheets as one, half way back.
  - b. **Do Not** back roll vinyl backed floorings.
  - c. **Do Not** seam factory edges.
  - d. **Do Not** straight edge and seam, or edge trim and seam.

- e. Snap white chalk lines along areas where adhesive will be spread to ensure an even and straight line of adhesive.
- f. Spread adhesive with proper notched trowel over entire area. Be very careful not to leave any adhesive ridges or puddles.

**Note:** The sub-floor porosity and room conditions (temperature, humidity, etc.) can affect the working time of the adhesive.

- g. Push lapped flooring from the fold into adhesive, working toward the wall. **DO NOT FLOP MATERIAL IN** – air will be trapped, causing bubbles.
- h. Roll floor with a minimum 100 lb. roller in both directions. Roll across width first, then along length.

**Note:** To ensure proper bonding of the material, it is recommended to roll in the material next to the walls with a hand seam roller.

- i. After material has been laid into the adhesive, recess scribe the seams using either the scribe blade or scribe pin. Hold the knife blade straight up and down to make final cut. **DO NOT UNDERCUT.**

**Note:** Set recess scribes so that the seam will have a slight gap, about half the thickness of a razor blade. If cut too full, it will result in bubbles or ridges.

- j. Roll the seam with a hand roller.
- k. Repeat the same procedure for additional seams in the room.
- l. Heat welding Shaw sheet flooring is always recommended.
- m. Heat weld seams the following day. See heat weld instructions.

## HEAT WELDING

- a. Heat welding is the recommended procedure for **Biolife™**, **Naturelife™** and **Solace™** seams, coving and corner fill pieces. Professionally heat welded seams provide a strong, watertight, hygienic, monolithic surface.
- b. The welding rod (4mm) is designed to melt at the same temperature as the sheet flooring, permanently thermally fusing the two together.
- c. Heat welding should be done after the flooring adhesive has set up, usually the following day.
- d. Seam edges should be slightly gapped and vertical. Wide gapped or undercut seams will prevent quality welds.
- e. The depth of the groove should be 1/2 to 2/3 the thickness of the material. Be careful not to go too deep. The groove must also be centered along the two edges. This is very important to ensure proper strength and bonding of the welding rod.
- f. Clean grooves thoroughly of all foreign contamination, including dust.
- g. Use only professional quality welding equipment that will maintain sufficient temperatures. Many types, sizes and styles of welding tips are available today. A tip must be chosen to produce a quality weld without damaging the appearance of the sheet vinyl.
- h. Preheat welding gun before beginning. Temperature should be set approximately 7500 F.

**Practice on a scrap piece to fine tune temperature and pace for type of substrate and site conditions. Long extension cords may affect welding temperature settings.**

- i. Determine the correct welding speed by ensuring that the welding rod actually fuses into the groove. A small ridge must form on either side of the welding rod, at the vinyl surface. If no ridge forms, you have not heat welded the seam.
- j. While the welding rod is still warm, trim off 1/2 -2/3 the excess rod with a spatula knife and trim plate in one continuous movement.
- k. After the rod has cooled to room temperature, make the final trim pass using only a razor sharp spatula knife in one continuous movement.
- l. Apply a glaze to the surface of the trimmed weld. Remove the tip from the welding gun. Hold the gun a few inches above the welded seam and apply hot air along the seam until the surface of the weld rod begins to shine. The glazed seam will be less porous, smoother, and less noticeable.

## CHEMICAL WELD

- a. Ensure seam is completely clean and dry.
- b. Pour entire contents of sealer into applicator bottle and allow any air bubbles to dissipate.
- c. Insert the tip of the applicator down into the seam. Pull back at a steady pace applying a constant pressure on the bottle, applying enough sealer to seal the edges of the sheet and leaving a small bead (1/8") of sealer on the surface of the seam.
- d. Keep all traffic off the seam for a minimum of 24 hours.

## 7 INSTALLING RESILIENT TILE & PLANK PRODUCTS

### Deco™ Stone Deco™ Wood

#### General

- a. Ensure that moisture tests have been conducted and that the results do not exceed **8.0** lbs. per 1000 sq. ft. in 24 hours as per ASTM F-1869, (or **87%** when using Shaw 4100) In-Situ relative humidity when tested according to ASTM F-2170.
- b. pH of concrete sub-floor is not greater than 10.
- c. The permanent HVAC system is turned on and set to a minimum of 68° F (20° C) for a minimum of 72 hours prior to, during and after installation. After the installations, the maximum temperature should not exceed 100° F.
- d. Do not stack more than 5 cartons high.
- e. Flooring material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior to installation.
- f. Use a 1/32" Deep x 1/16" Wide x 1/32" Apart (U) notch trowel only.
- g. Material should always be visually inspected prior to installation. Any material installed with visual defects will not be considered a legitimate claim as it pertains to labor cost.**
- h. Make sure all material is from the same batch number. Install tiles running in same direction (arrows are on back of tile). Ensure that all recommendations for sub-floor and jobsite conditions are met prior to beginning the installation. Directional designs are optional, however, once the installation is started, you have accepted those conditions.

## LAYOUT AND INSTALLATION

- a. Shaw tile and plank - install using conventional tile and plank installation techniques. Plank products should have a minimum of 6-8" seam stagger.
- b. Carefully determining where to begin tile or plank installations produces professional looking results.
- c. It is customary to center rooms and hallways so borders are not less than half a tile or plank.
- d. In hallways and small spaces, it may be simpler to work lengthwise from one end using a center reference line as a guide.
- e. Make sure cut edges are always against the wall.

## ADHESIVE APPLICATION

- a. Use only SHAW 4100 adhesive and a 1/32" Deep x 1/16" Wide x 1/32" Apart (U) notch trowel. Follow the directions on the adhesive label.
- b. After placing the material into the adhesive, roll in both directions with a minimum 100 lb. roller.

## INSTALLATION OF CONDUCTIVE - TILE

### General – StaticPulse™

- a. Ensure that moisture tests have been conducted and that the results do not exceed **5.0** lbs. per 1000 sq. ft. in 24 hours as per ASTM F-1869-, or **80%** In-Situ relative humidity when tested according to ASTM F-2170.
- b. pH of concrete sub-floor surface is no greater than **10**.
- c. The permanent HVAC system has been turned on and set to a minimum of 68° F (20° C) for a minimum of 72 hours prior to, during and after installation. After the installations, the maximum temperature should not exceed 100° F.



- d. Flooring material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior to installation.
- e. **Only SHAW 5100-SD** or conductive adhesive may be used.
- f. Use a 1/32" Deep x 1/16" Wide x 1/32" Apart (U) notch trowel only.
- h. Material should always be visually inspected prior to installation. Any material installed with visual defects will not be considered a legitimate claim as it pertains to labor costs. Make sure all material is from the same batch number. Install tiles all in same direction (arrows are on back of tile). **Directional designs are optional, however, once the installation is started, you have accepted those conditions.** Ensure that all recommendations for sub-floors and jobsite conditions are met prior to beginning the installation. Once the installation has started, you have accepted these conditions.

## Layout and Installation – StaticPulse™

- a. StaticPulse™ installs using conventional tile installation techniques.
- b. Carefully determining where to begin tile installations produces professional looking results.
- c. If the first few tiles are not installed correctly, it will affect the entire installation.
- d. It is customary to center rooms and hallways so borders are not less than half a tile.
- e. In hallways and small spaces, it may be simpler to work lengthwise from one end, using a center reference line as a guide.
- f. Install all tiles running in the same direction. Directional arrows are on the back of each tile.
- g. Tile must be installed into wet adhesive.
- h. Make sure cut edges are always toward the wall.
- i. Roll immediately with a minimum 100 lb. roller.
- j. Since it takes time to scribe and cut the border tiles, it is advisable to spread the adhesive only where full tiles will be laid.
- k. After the field is complete, cut the border tiles to size, then spread adhesive.

## Adhesive – Shaw 5100-SD

Use only the SHAW 5100-SD or conductive adhesives and a 1/32" Deep x 1/16" Wide x 1/32" Apart (U) notch trowel blade. Follow the instructions on the adhesive container.

## Adhesive Transfer

Only spread as much adhesive as you can install tile while still wet. Proper transfer of adhesive is essential to maintain static control.

## Grounding – StaticPulse™

Grounding of the StaticPulse™ should be done a minimum of once every 1,000 sq. ft. of uninterrupted tile. The ground points should be determined prior to installation of the tile. Use a 1" x 18" x .004" copper foil strip. Place half of the strip (9") in the wet adhesive and spread additional adhesive on top of the copper strip, then lay the tile over it. The loose end of the copper strip is mechanically attached to the ground point. The ground strip should be adequately protected to ensure it is not damaged.

**Note:** It is the floor contractor's responsibility to discuss the placement and connection of the grounding strips prior to the installation. This will aid in avoiding any controversies once the job is started.

**Note:** It is **NOT** the floor contractor's responsibility to actually ground the strips. Grounding is normally done by an electrician who makes certain that the grounding method meets applicable code requirements.

## Heat Welding Seams – StaticPulse™

StaticPulse™ tiles may be heat welded using the procedures described in the “Heat Welding” section.

## Flash Coving – StaticPulse™

StaticPulse™ can be easily flash coved using standard flash coving procedures. Again, since it takes time to scribe and cut the border tiles, it is advisable to spread the adhesive only where full tiles will be laid. After the field is complete, cut the border/cove tiles to size, then spread adhesive and install tiles within 20 minutes.

## Testing – StaticPulse™

After installation is completed, test flooring with mega ohm meter, according to the most current revision of STM7.1, ASTM F-150, or NFPA 99. All measurements must be recorded for warranty registration.

## Maintenance – StaticPulse™

- a. If electrical certification is required, DO NOT perform any maintenance procedures until after certification has been completed.
- b. Use only recommended ESD maintenance products for the life of your floor.
- c. Wait 4 days before wet washing and scrubbing the new floor.
- d. StaticPulse does not require a polish

## StaticPulse™ Warranty

- a. Shaw warrants StaticPulse™ with a Lifetime warranty against static generation.
- b. Shaw does not warrant installer's workmanship. Workmanship errors should be addressed to the contractor who installed the floor. Your Shaw commercial floor should be professionally installed by contractors who have demonstrated expertise in installing commercial floors.

## 8 MAINTENANCE

**When performing any wet maintenance, always use wet floor signs.**

### Newly Installed Floor Care

- a. Keep all foot traffic off the new floor for 12 hours.
- b. Keep furniture, fixtures and rolling traffic off the new floor for 36 hours.
- c. Remove adhesive residue with a clean white cloth dampened with mineral spirits.
- d. Use 1/4” or thicker plywood to protect the surface when moving heavy objects across the new floor.
- e. Lightly damp mop the floor as needed.
- f. Wait 4 days before wet washing and scrubbing the new floor.

### Initial Maintenance

- a. Sweep, vacuum or dust mop to remove dirt and grit.
- b. If needed, add neutral cleaner to cool water following the manufacturer's instructions.
- c. Scrub with a low-rpm machine or auto scrubber. Use a red pad or brush.
- d. Never use brown or black pads (too aggressive and can damage the product)
- e. Remove the cleaning solution with a wet-dry vacuum or auto scrubber until the floor is dry.
- f. Rinse the floor with clean water. Repeat the rinse process if necessary to remove all haze.

## **Routine Maintenance**

- a. Sweep, vacuum or dust mop to remove dirt and grit.
- b. Add neutral pH cleaner to cool water following the manufacturer's instructions.
- c. As needed, scrub with a low-rpm machine or auto scrubber to retain appearance. Use a red (light scrubbing) pad and neutral cleaner following the manufacturer's instructions.

## **Preventative Floor Care**

- a. Use walk-off mats that are as wide as the doorway and long enough for soil load and weather conditions.
- b. Use mats with a non-staining backing.
- c. Floor protectors should be used on all furniture legs.
- d. The surface area of the floor protectors should be no less than 1" in diameter.

For a list of recommended maintenance products contact Shaw Information Center: 1 800.441.7429

## **9 WARRANTY**

**Shaw warrants its sheet, tile and welding rods to be free from manufacturing defects for ten years from the date of purchase.**

**Shaw does not warrant installers' workmanship. Workmanship errors should be addressed to the contractor who installed the floor. Your Shaw commercial floor should be professionally installed by contractors who have demonstrated expertise in installing commercial floors**

**For complete warranty information, please call – Shaw Information Center: 1 800.441.7429**