

Installation Guide for Resilient Flooring

**Bio-Flooring**

*Migrations®*, *Striations BBT™*

Product	Gauge	Size	Subfloor Adhesive Recommendations		
			Wood, Concrete, Ceramic, Terrazzo or Marble	Metal	Existing Resilient Flooring
Migrations	0.125 in. (3.2 mm)	12 in. x 12 in. (305 mm x 305 mm)	S-525 or S-700	S-700	S-525 Tile-On System
Striations		12 in. x 24 in. (305 mm x 610 mm)			

**Installation:**

Location: All grade levels

**Suitable Substrates:**

All substrates listed below must be properly prepared and meet the requirements discussed in Chapter III, Subfloors and Underlayments. There may be certain exceptions and special conditions for these substrates to be suitable for the BioBased Tile Installation System. Review substrate recommendations for the adhesives.

**Full Spread:**

- Concrete (on all grade levels)
- Approved Suspended Wood Underlayments
- Steel, Stainless Steel, Aluminum, Lead, Copper, Brass, Bronze
- Ceramic Tile, Terrazzo, Marble
- Polymeric Poured (seamless) Floors

**Tile-On:**

- Existing Resilient Sheet Floors
- Vinyl Composition, Vinyl Asbestos, Asphalt, Rubber and Vinyl Tile (On Grade or Suspended Only)

**Job Conditions/Preparation:**

- Resilient flooring should only be installed in temperature-controlled environments. It is necessary to maintain a constant temperature before, during, and after the installation. Therefore, the permanent or temporary HVAC system must be in operation before the installation of resilient flooring. Portable heaters are not recommended as they may not heat the room and subfloor sufficiently. Kerosene heaters should never be used.
- Substrates must be dry, clean, smooth, and free from paint, varnish, wax, oils, solvents, and other foreign matter. In renovation or remodel work, remove any existing adhesive residue\* so that no ridges or puddles are evident and a thin, smooth film remains.
- Allow all flooring materials and adhesives to condition to the room temperature for a minimum of 48 hours before starting the installation.
- The area to receive the resilient flooring should be maintained at a minimum of 65°F (18°C) and a maximum of 100°F (38°C) for 48 hours before, during and for 48 hours after completion.
- During the service life of the floor, the temperature should never rise above 100°F (38°C) nor fall below 55°F (13°C). The performance of the flooring material and adhesives can be adversely affected outside this temperature range.

*\*Some previously manufactured asphaltic “cutback” adhesives contained asbestos (see warning statement on page). For removal instructions, refer to the Resilient Floor Covering Institute’s publication Recommended Work Practices for Removal of Resilient Floor Coverings.*

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- For concrete substrates, conduct moisture testing (moisture vapor emission rate [MVER]) and/or percent relative humidity (in-situ probe). Bond tests must also be conducted for compatibility with the substrate. Please refer to Chapter III, Subfloors and Underlayments.
- Radiant heated substrates must not exceed a maximum surface temperature of 85°F (29°C).
- Concrete floors should be tested for alkalinity. The allowable readings for the installation of Armstrong flooring are 5 to 9 on the pH scale.

### Precautions:

- Tiles are to be heated from the back only, never the face.
- Do not wash tile for at least 4 days after installation. This will allow the tile to become well seated in the adhesive and prevent excess moisture and cleaning agents from interfering with the adhesive bond.
- Products installed using the Tile-On System may have less resistance to indentation. We strongly recommended the use of Armstrong Floor Protectors.
- Install one quarter of the room at a time for all 12 in. x 12 in. (305 mm x 305 mm) tiles.

### Fitting:

See Chapter VI, Layout and Fitting for room layout. Before installing the material, plan the layout so tile joints fall at least 6 in. (152 mm) away from subfloor/underlayment joints. Do not install over expansion joints.

When installing over an existing resilient floor, plan the layout so the new joints are a minimum of 6 in. (152 mm) away from the original seams. When installing over tile floors, joints should fall in the center of the tile.

When installing 12 in. x 12 in. (305 mm x 305 mm) tiles, avoid having border pieces less than 6 in. (152 mm) wide.

### Abutting Different Gauges of Resilient Flooring:

When installing thinner gauge material next to thicker gauge materials, install thicker material first and then butt a 12 in. (305 mm) wide piece of scribing felt against the thicker material. Adhere the scribing felt to the subfloor with S-235 Adhesive. Use the fine notching of the S-891 Trowel over nonporous substrates such as existing resilient flooring and use the regular notching of the S-891 Trowel over porous subfloors such as wood and concrete. Use S-184 Fast-Setting Cement-Based Patch and Skim Coat or S-194 Patch, Underlayment and Embossing Leveler to feather the edge of the scribing felt to the level of the substrate. Allow the patch to dry completely before installing the flooring. scribing felt is not recommended to be used under the entire installation.

### Adhesive Open Times and Notchings

Adhesive	Open Time	Working Time
S-525	Approximately 20 minutes or more	24 hours
S-700	Approximately 30 minutes or more	18 hours

**NOTE: All adhesives should be dry-to-touch before installing tile. The amount of open time will vary according to job conditions, temperature, humidity, air flow and type of substrate. All adhesives are applied with fine notching [1/32 in. (0.8 mm) deep, 1/16 in. (1.6 mm) wide, 5/64 in. (2.0 mm) apart].**

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**Procedure:**

See Chapter V, Adhesives, Seam Treatments and Grout.

When using tile from two or more cartons, check to be sure all pattern and lot numbers are the same to ensure proper color match. On larger installations, open several cartons and mix them as they are installed to help blend any slight shade differences from one carton to the next.

**Procedure:**

1. Line off entire area to be installed.
2. Apply the adhesive over the area, being careful not to cover the chalk lines and using the fine notching of the S-891 Trowel. You may prefer to spread and install one quarter of the room at a time.
3. Allow the adhesive to set until dry-to-touch following the recommended open time. To test, press your thumb lightly on the surface of the adhesive in several places. If the surface feels slightly tacky as your thumb is drawn away and does not stick to your thumb, the adhesive is ready for the installation.
4. Install the tile along the chalk lines, laying the field area first and then fitting in the border tile.
5. Clean adhesive from the surface of the tile following removal methods on the adhesive label.
6. Tile should not be exposed to rolling load traffic for at least 72 hours after installation to allow setting and drying of the adhesive.

**NOTE: When installing tile be sure that all tile is firmly seated into the adhesive. Rolling with a 100-lb. roller will achieve the same result and is highly recommended.**