



# Mirra, Linaire, LV500 & Natura

## INSTALLATION INSTRUCTIONS

### IMPORTANT!

**BEFORE PROCEEDING WITH ANY INSTALLATION, BE SURE TO READ THE FLOOR PREPARATION PROCEDURES AND INSTALLATION INSTRUCTIONS.**

**FOLLOW ASTM F 710 "STANDARD PRACTICE FOR PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT FLOORING" THIS INCLUDES DETERMINING MOISTURE AND pH LEVELS OF THE CONCRETE AS SPECIFIED IN:**

- 1. ASTM F 1869, Anhydrous Calcium Chloride.**
- 2. ASTM F 2170, Relative Humidity (RH) using *in situ* probes.**
- 3. ASTM F 710, determining pH levels, (test procedure 5.3.1).**

Ensure moisture tests have been conducted and moisture levels are acceptable according to manufacturer's recommendations and will not increase at a future date above recommended levels. For all grade installations (on, above or below), it is the flooring contractor's responsibility to ascertain that there is not too much moisture in the concrete and that the pH level is correct. American Biltrite will not be responsible for hydrostatic pressure, which may occur in the future. Consult the "Adhesive Quick Check Chart" for acceptable sub-floor types, moisture/RH, pH levels and approximate coverage for each adhesive system.

**NO CHEMICAL ADHESIVE REMOVAL PRODUCT MUST BE USED. THE USE OF SUCH AN ADHESIVE ABATEMENT SYSTEM WILL VOID THE AMERICAN BILTRITE (CANADA) LTD. ADHESIVE SYSTEM WARRANTY.**

### ADHESIVE SYSTEMS

**General:** The use of the proper adhesive is critical to a successful end result. Use the following adhesive guidelines. However, if there is any doubt on which adhesive to use contact Amtico or their distributor for additional information.

- Dry slab on grade - check for possible moisture problems and ensure that moisture readings are within acceptable levels:
  - Use AD-530SFor PS-30 adhesives.
- Dry slab above grade (suspended) - check moisture readings:
  - Use AD-530SF, or PS-30 adhesives.
- Dry slab below grade - check for possible moisture problems and ensure that moisture readings are within acceptable levels:
  - Use AD-530SF adhesive. PS-30 adhesive can be used in these areas if moisture readings are within the specified tolerances and will not be exceeded in the future.

Refer to Adhesives Quick Check Chart for other approved and not approved sub-floor types.

### AD-530SF Solvent Free Polyurethane Adhesive Description:

AD-530SF is a polyurethane-based adhesive that is cream when mixed. AD-530SF is a two part component adhesives that when mixed becomes a pasty consistency. AD-530SF is formulated to bond Luxury Vinyl tile where a high performance installation is required.

### Porous Surfaces:

Recommended over construction grade plywood, cementitious under layments, dry concrete that is above, on or below grade when there is less or equal to:





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AD-530SF - Maximum 5lbs or 85 % RH /1,000sq. ft./24 hours (0-2.26kg/92.9 sq.m/24hours)

As determined by the anhydrous calcium chloride moisture test (ASTM F 1869) or by Relative Humidity (RH) moisture test (ASTM F 2170) and were pH levels are within and including 8 to 10. If test results exceed the limitations DO NOT PROCEED UNTIL THE SITUATION HAS BEEN CORRECTED.

### Limitations:

1. Protect adhesives from freezing in transit and storage. If frozen, allow to return to room temperature without stirring.
2. Do not use when the substrate temperature is below 18°C (65°F) or above 29°C (85°F).
3. For interior installations only.

### Directions:

Remove the lid of part A and stir using a mechanical mixer.

- Remove the lid of part B and pour all the contents of part B into the container of part A. Use a rubber spatula to remove all of the part B from the container. Thoroughly mix both part A and part B together. The use of a mechanical mixer is required to ensure proper mixing. Inadequate mixing will cause bond failure.

### Application:

- Pour the full amount of the mixed adhesive onto the floor immediately after mixing.
- **Porous Surface** - spread with 1.6 x 1.6 x 1.6 mm (1/16" x 1/16" x 1/16") U-notched trowel.
- **Non-Porous Surface** – spread with 0.7 x 0.7 x 1.6mm (1/32" x 1/32" x 1/16") U-notched trowel.

**Note:** Do not leave mixed polyurethane adhesive in original can; the heat generated by this chemical mixture reduces the open time of the adhesive.

- After spreading the adhesive, lay the tiles immediately into the adhesive. Take care to use kneeling boards or work off the tiles whenever possible. Remove excessive adhesive from the surface of tiles with a cloth moistened with water, denatured ethyl alcohol or isopropyl alcohol (rubbing alcohol) while adhesive is wet.
- Open time of adhesive will vary depending on site conditions (i.e. temperature, humidity). The adhesive is still workable if it is wet and transfers to the fingers when touched. The installer should observe adhesive transfer to the back prior to and following cross rolling with a 70 Kg (150 pound) sectional roller. The floor **MUST** be rolled prior to adhesive hardening. A second rolling must be done 2 to 3 hours after the first rolling.

### Clean-Up:

Clean any excess adhesive off the tiles and tools promptly using denatured ethyl alcohol or isopropyl alcohol (rubbing alcohol) while adhesive is wet.

**Note:** Polyurethane adhesive cannot be removed after they have set.

### Caution:

- Keep from freezing.

### Start-up Floor Maintenance:

- Do not start any maintenance procedures for a minimum of seven (7) days following installation.
- **DO NOT AT ANY TIME DURING THE INITIAL MAINTENANCE OR THEREAFTER FLOOD THE FLOOR WITH WATER OR MAINTENANCE SOLUTIONS.**
- Refer to "Maintenance Instructions" for specific details.





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## INSTALLATION INSTRUCTIONS

### Coverage:

- AD-530SF up to 15 m<sup>2</sup> per 3.79 liter unit (163 sq ft per US gal).

### IMPORTANT!!!

#### FLOOR PROTECTION

Following installation and cleanup of the tile, protect the tile from other sub trades by laying sheets of brown Kraft paper over the tile, and then lay plywood sheets.

#### CURING TIMES

Site conditions can greatly affect curing times of the adhesives. Visually check the tile installation to make sure curing of the adhesive is happening by pulling back the corner of the tile. If it will not peel back easily the curing process is underway. This must not be attempted prior to 24 hours following installation.

We recommend the following adhesive curing guidelines for AD-530SF:

- Up to 24 hours following installation – no traffic
- Between 24 to 72 hours – light traffic

After 72 hours – moderate to heavy traffic, placement of furniture and rolling traffic.

#### PS-30 Pressure Sensitive Adhesive

##### Description:

American Biltrite PS-30 may be used as a “wet-set” adhesive or as a pressure sensitive adhesive.

##### Porous Surfaces:

Recommended over construction grade plywood, cementitious under layments, dry concrete that is above, on or below grade when there is less or equal to:

Maximum 3lbs or 75% RH /1,000sq. ft./24 hours (0-1.36kg/92.9 sq.m/24hours)

As determined by the anhydrous calcium chloride moisture test (ASTM F 1869) or by Relative Humidity (RH) moisture test (ASTM F 2170) and were pH levels are within and including 8 to 10.

If test results exceed the limitations DO NOT PROCEED UNTIL THE SITUATION HAS BEEN CORRECTED.

##### Limitations:

1. Protect from freezing in transit and storage. If frozen, allow the adhesive to return to room temperature without stirring.
2. Do not install when the substrate temperature is below 18°C (65°F) or above 29°C (85°F).
3. For interior installations only.

##### Applications

##### PRESSURE SENSITIVE INSTALLATION:

- Spread adhesive with 1/16” x 1/16” x 1/16” (1.6 mm x 1.6 mm x 1.6 mm) square-notched trowel for porous substrates and a 1/16” x 1/16” x 1/16” (1.6 mm x 1.6 mm x 1.6 mm) V-notched trowel for non-porous substrates.
- Allow the adhesive to dry to the touch (approx. 25 to 45 minutes). The adhesive will turn a translucent amber color. Install flooring within 3 hours.
- Roll flooring material with a 75-100 lb (34-45 kg) roller across the width and length. See Curing Guidelines below for additional information.

Do not start any maintenance procedures for a minimum of 7 days following installations.

##### WET SET INSTALLATION:

Bonds to: Porous : Suspended APA approved wood, under layment board, cementitious under layments, and dry concrete that is above, on or below grade.

- Spread adhesive with 1/16” x 1/16” x 1/16” (1.6 mm x 1.6 mm x 1.6 mm) square-notched trowel for porous substrates and a 1/16” x 1/16” x 1/16” (1.6 mm x 1.6 mm x 1.6 mm) V-notched trowel for non-porous substrates.
- Allow the adhesive to set open for 5 to 10 minutes before installing flooring.





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- Roll flooring material with a 75-100 lb (34-45 kg) roller across the width and length.

Avoid traffic for 12 hours after installation. See Curing Guidelines below for additional information

### Clean Up:

Remove wet adhesive residue with a clean, white cloth dampened with soapy water. Use mineral spirits for dried adhesive residue.

### Caution:

- Keep from freezing.

### Start-up Floor Maintenance:

- Do not start any maintenance procedures for a minimum of seven (7) days following installation.
- **DO NOT AT ANY TIME DURING THE INITIAL MAINTENANCE OR THEREAFTER FLOOD THE FLOOR WITH WATER OR MAINTENANCE SOLUTIONS.**

Refer to "Maintenance Instructions" for specific details.

### Coverage:

- Porous substrates: up to 9.29 m<sup>2</sup> / 3.78 liter unit ( 100 sq. ft. per US gal).
- Non-porous substrates: up to 16.72 m<sup>2</sup> / 3.78 liter unit ( 180 sq. ft. per US gal)

### IMPORTANT!!!

#### FLOOR PROTECTION

Following installation and cleanup of the tile, protect the tile from other sub trades by laying sheets of brown Kraft paper over the tile, and then lay plywood sheets.

#### CURING TIMES

Site conditions can greatly affect curing times of the adhesives. Visually check the tile installation to make sure curing of the adhesive is happening by pulling back the corner of the tile. If it will not peel back easily the curing process is underway. This must not be attempted prior to 24 hours following installation.

### PRESSURE SENSITIVE INSTALLATION;

- Light traffic for first 72 hours.
- After 72 hours – moderate to heavy traffic, placement of furniture and rolling traffic.

### WET SET INSTALLATIONS:

- Up to 12 hours following installation – no traffic.
- Between 12 and 72 hours – light traffic.
- After 72 hours – moderate

### Warning

Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic cutback adhesives, or other adhesives. These products may contain asbestos fibers 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 nonasbestos-containing material, presume that it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute's (RFCI's) recommended work practices for removal of existing resilient floor coverings should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures.

