



Marathon DuraSport Rubber Flooring

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 levels are 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.

THE USE OF CHEMICAL ADHESIVE REMOVAL PRODUCT MUST NOT BE USED. THE USE OF SUCH ADHESIVE ABATEMENT SYSTEMS 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 Estrie 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-530SF or AD-444 adhesive
- Dry slab above grade (suspended) - check moisture readings:
 - Use AD530SF or AD-444 adhesive.
- Dry slab below grade - check for possible moisture problems and ensure that moisture readings are within acceptable levels:
 - Use AD-530SF adhesive. AD-444 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 Adhesive Quick Check Chart for other approved and not approved sub-floor types.

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 Marathon rubber tile where a high performance installation is required.

Porous Surfaces:

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

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



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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.

Do not mix more adhesive than can be spread and covered with flooring in a 30 minute period

- After spreading the adhesive, lay the tile immediately into the adhesive (do not force the tiles together tightly, rather place them so that seams are just touching). Take care to use kneeling boards or work off the tile whenever possible. Remove excessive adhesive from the surface of tile with a cloth moistened with water or ethyl 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 of the tile prior to and following cross rolling with a 45 Kg (100 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 excess adhesive off the tile and tools promptly using ethyl alcohol.

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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Coverage:

- AD-530SF up to 15 m² 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 subtrades 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.

AD-444 Acrylic/Latex Adhesive

Description:

AD-444 adhesive is a water-based acrylic polymer, off white in color and of syrupy consistency. It is formulated to bond Marathon rubber tiles over concrete or plywood.

Porous Surfaces:

Recommended over construction grade plywood, cementitious underlayments, 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.

Directions:

Remove the lid from the container and apply directly from the container.

Application:

- Porous substrates: Bonds to: Suspended APA approved wood, underlayment board, cementitious underlayment, and dry concrete that is above, on or below grade.
- Spread adhesive with a 1/16" x 1/16" x 1/16" (1.6 mm x 1.6 mm x 1.6 mm) square-notched trowel. Allow the spread adhesive to remain open about 15-25 minutes. Working time over concrete, up to 90 minutes, depending on temperature and humidity during installation. Roll flooring material with a 75-100 lb (34-45 kg) roller across the width and length. See Curing Guidelines below for additional information.
- Non-porous substrates: Bonds to: Staircases, terrazzo, ceramic tile, metal, existing fully adhered solid vinyl resilient on all grade levels and poured polymeric floors. Spread adhesive with a 1/32" x 1/16" x 5/64" (0.7 mm x 1.60 mm x 2.00 mm) U-notched trowel. Allow the spread adhesive to remain open about 30-40 minutes, depending on temperature and humidity during installation.





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Working time over concrete, up to 2 hours, depending on temperature and humidity conditions. Roll flooring material with 75-100 lb (34-45 kg) roller across the width and length. See Curing Guidelines below for additional information.

Clean-Up:

- Clean excess adhesive off the tile and tools using soap and water. Dry adhesive is more difficult to remove.

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: 11.61 m² / 3.79 liter unit (125 sq. ft. / gal.)
- Non-porous substrates: 14.86 m² / 3.79 liter unit (160 sq. ft. / gal.)

IMPORTANT!!!

FLOOR PROTECTION

Following installation and cleanup of the tile, protect the tile from other subtrades 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-444 adhesive:

- Up to 12 hours following installation – no traffic
- Between 12 to 72 hours – light traffic

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

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.

