

# ESTRIE INSTALLATION PROCEDURES

## Marathon Stair Treads (Classic & Plus) and Nosing

### IMPORTANT!

**BEFORE PROCEEDING WITH INSTALLATION, BE SURE TO READ THE ESTRIE FLOOR PREPARATION PROCEDURES!**

**General:** Call Estrie or their Distributors if there are any questions regarding preparation of subfloor prior to installation of Estrie products. Estrie adhesive must be used to install Marathon Stair Treads.

Special instructions for Visually Impaired Treads:

- Do not flex or bend treads with detectable warning strips.
- Fit tread snug. Do not force treads in place.
- Cut carborundum strips at least 3 mm (1/8") from edge of treads.

**Note:** Gypsum-based patching or leveling compounds are NOT recommended by Estrie under any circumstances.

#### Stair Preparation

- Heating and/or air conditioning in the installation area must be operative for a minimum of 48 hours prior to, during and following the installation. The room temperature, subfloor, tread and adhesive must also be maintained at a temperature of 21°C (70°F) for 48 hours prior to installation. A fluctuation of +/- 3°C (5°F) within this range is acceptable.
- Treads and adhesive should be stored on the job site 48 hours prior to installation, and treads removed from the cartons or pallet and back stacked to facilitate equalization of temperature.
- **Concrete Steps:** concrete must be clean, dry, firm, fully cured and free of alkali or acid (neutralize), curing compounds, paint, urethane, oil or solvents. Newly poured concrete steps must be cured for at least 6 plus weeks prior to tread installation. Cracks must be filled and low or rough areas should be leveled with a Portland cementitious patching compound.

#AD-33 Solvent Free Epoxy stair nosing caulking compound can be used for building up worn or repairing cracked steps.

- **Wooden Steps:** wooden steps must be satisfactorily nailed, clean and free from polish and wax. Replace or repair old or worn steps. Fill all surface cracks and holes using a Portland cementitious patching compound.

- **Terrazzo, Ceramic, Natural/Agglomerated Marble or Granite**

**Caution!!! When installing over terrazzo, ceramic, natural/agglomerated marble or granite, these types of floors are non-porous and require special attention.**

The problem created with these type of steps is due to the glazed and polished surface finish. In many cases the steps are treated with sealers and waxes as well, which can build up on the surface. Remove glaze, polished finish, sealers and waxes by sanding or by the Blastrac method (bead blasting).

- Ensure that the surface is free of dirt, dust, debris or any other deleterious substances that will prevent bonding of the primer, then apply a coat of the U.P. Primer Rapid. Follow the primer manufacturers latest written specifications and allow to cure for a minimum of 24 hours prior to the application of Ultra/Plan.
  - Apply a 3 mm to 5 mm (1/8" to 3/16") thick layer of Ultra/Plan over the cured U.P. Primer and level it.
  - Allow to cure for 24 hours prior to the installation of Marathon rubber flooring.
- **Metal Steps:** the surface must be level, clean, dry and free of any coatings or foreign materials. Abrade the metal (aluminum, steel, brass, copper and bronze) by sanding to create a scarified surface finish to ensure that a good adhesive bond can be obtained.



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### 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.

- On concrete and plywood steps where no moisture is present - use AD-444, #529SF, #530SF with #AD-33 Solvent-Free Epoxy stair nosing caulking compound.
- On non-porous substrates such as metal stair - #530SF with #AD-33 Solvent-Free Epoxy stair nosing caulking compound.

### Epoxy #529SF and Polyurethane #530SF Adhesives

#### Description:

#529SF and #530SF are two part component adhesives of syrupy consistency. They are formulated to bond Marathon Classic and Marathon Plus Rubber Stair Treads where high performance installation is required. For Marathon Plus rubber stair treads use #530SF adhesive.

#### 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:

- After mixing spread the adhesive with a 1.6 x 1.6 x 1.6 mm (1/16" x 1/16" x 1/16") U-notched trowel over the step area to be covered.

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

- After spreading adhesive, lay tread immediately into wet adhesive. Remove excessive adhesive from surface of tread with a cloth moistened with water or ethyl alcohol while adhesive is wet.
- One Piece Stair Treads should be weighted, we recommend, using sand bags until adhesive has hardened.
- Open time of adhesive will vary. The installer should observe adhesive prior to rolling with a hand roller. The tread **MUST** be rolled prior to adhesive hardening. A second rolling must be done 3 hours after the first rolling.

#### Clean-Up:

- Clean excess adhesive off the tread and tools promptly using ethyl alcohol.  
**Note:** Epoxy and polyurethane adhesive cannot be removed after it has set.

#### Caution:

- Keep from freezing.

#### Coverage:

- #529SF: up to 11.3 sq m per 3.79 liter unit (121 sq ft per U.S. gallon)
- #530SF: up to 15 sq m per 3.79 liter unit (163 sq ft per U.S. gal).

### 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 Classic rubber stair treads over concrete or plywood.

#### Limitations:

1. Protect from freezing in transit and storage. If frozen, allow to return to room temperature without stirring.
2. Do not install when the substrate temperature is below 15°C (59°F) or above 30°C (86°F).
3. For interior installations only.

#### Directions:

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

# ESTRIE INSTALLATION PROCEDURES

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### Application:

- Porous substrates: 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: 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. 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.
- Do not start any maintenance procedures for a minimum of 7 days following installation.

### Clean-Up:

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

### Coverage:

- Porous substrates: 11.61 m<sup>2</sup> / 3.8L (125 sq. ft / gal.)

Non-porous substrates: 14.86 m<sup>2</sup> / 3.8L (160 sq. ft. / gal.)

### #AD-33 Epoxy Solvent-Free Nosing Caulking Compound

#### Description:

#AD-33 is a two-part solvent-free epoxy caulking compound. It prevents cracking and flexing of rubber treads and nosings by uniformly moulding a strong bonding support to the under-step. It is excellent for the complete rehabilitation of existing concrete, wooden or metal steps, and can be used for repairing cracks, holes, depressions, worn and broken edges.

#### Directions:

- Cut mixing nozzle to a 3/8" inside diameter opening.
- Remove end cap and securely attach mixing nozzle using the retaining nut to the cartridge.
- Depress the trigger on the gun until the compound reaches the end of the mixing nozzle.
- Discard the first 1-2" of compound. **Do not remove internal mixer in nozzle.**
- Gun a sufficient amount of the compound inside the nosing of the tread/nosing, so that when the tread nosing is pressed firmly in place the compound will conform to the curvature of the step edge.
- After installation of the tread nosing, thoroughly roll tread nosing with a J-type hand roller, especially in the nosing area. The nosing area of the tread nosing must be in 100% contact with the step edge to provide adequate support and eliminate any gaps.
- Coverage: approx. 15 lin m or 50 lin ft per unit at a 6 mm or 1/4" diameter bead.
- To save a partial cartridge or compound for future use, leave the mixing nozzle in place on the cartridge during storage. To dispense the remaining portion of caulking compound simply replace the old nozzle with a new one and dispense the material.

#### Installation Procedure

- Dry fit all stringers and make any adjustments to the fit. Apply Chembond #1651 or Mapei ECO 575 Cove Base adhesive as recommended by the manufacturers of these products.
- Dry fit all treads and risers. First, scribe treads to fit steps. Second, place riser into position to fit tread nose on above step. Apply the adhesive as described in Adhesive Application. It is required that all Marathon treads have a bead of #AD-33 Solvent-Free Epoxy nosing compound applied along the inside of the tread nosing angle section and to within 1/2" of the edges. This will fill any voids in the steps.

**NOTICE:** When installing the Marathon One Piece stair treads using #AD-33 Solvent-Free Epoxy nosing compound, repeat the caulking procedure where the tread and riser intersect.

- Press treads and risers firmly into place. Press nosing into stair so epoxy caulk molds to the shape of the tread nose and stair.

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## **Marathon Stair Treads (Classic & Plus) and Nosing**

- Any excess adhesive on the surface of the treads or surrounding area should be removed immediately as described in the adhesive section. Adhesive cannot be removed if set.

### **IMPORTANT!!! STEP PROTECTION**

Following installation and cleanup of the steps, protect them from other subtrades.

### **CURING TIMES**

Site conditions can greatly affect curing times of the adhesives. Visually check the step installation to make sure curing of the adhesive is happening by pulling back the corner of the step. 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 #529SF & #530SF adhesives:

- Up to 24 hours following installation – no traffic
- Between 24 to 48 hours – light traffic
- After 72 hours – moderate to heavy traffic, placement of furniture and rolling traffic.

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.

Note: U.P. Primer Rapid and Ultra/Plan are registered trademarks of Mapei