



SkateStoppers is a trademark of Intelliccept

Rail Wrap Installation

The following are step-by-step instructions for the installation of SkateStoppers Rail Wraps.

For best results and easiest application, we recommend that you use the following tools and supplies:

- 1) SkateStoppers Rail Wraps and tamper resistant fasteners
- 2) SkateStoppers Adhesive
- 3) Adhesive Applicator and Mixing Nozzles
- 4) Electric drill and #21 drill bit(0.1590")
- 5) 10-32 Tap
- 5) Cutting Knife
- 6) Mineral Spirits and Rags
- 7) Isopropyl Alcohol
- 8) No Skating Signs
- 9) Protective Gloves and Safety Glasses

WARNING: The American with Disabilities Act forbids the installation of any raised obstacle on handrails that are designed to provide access for persons with disabilities. If you are experiencing skate abuse on such handrails, we recommend that you consult with local ADA representatives.

Step One - Product Layout

SkateStoppers are designed with a low profile to complement existing architecture. It is important to place the product at equidistant increments and symmetrical to the applied surface so that the goal of deterring abuse can be achieved without creating an eyesore.



The rail on which the product is to be applied should be measured. Make a mark on the working surface approximately 12" from both ends- these will serve as your end pieces. Next, measure the distance between the end pieces and divide that distance into equal increments (approximately 24-36"). Mark the working surface at the appropriate placement positions. Depending on the magnitude of the abuse at your site, you may choose to increase or decrease the recommended distance. For chronically abused properties, consider decreasing the space between parts.

Wrap a piece of masking tape around the rail at each of the marks. Examine the rail from a distance. If the parts are laid symmetrical and the spacing is deemed adequate, proceed to the next step. Otherwise, repeat this process until a satisfactory layout is achieved.

Step Two - Mark First Hole

Center the Rail Wrap on the top of the rail at each piece of tape. Hold the part flush to the hand rail. Using a punch set, mark the tape through the hole in the part. **MARK ONLY ONE HOLE AT THIS TIME.** Repeat this marking process until all of the first holes have been marked.



Step Three

Drill and Tap First Hole

Once the first holes have been marked, you are ready to begin drilling. Using an electric drill motor and a #21 drill bit, drill the marked hole on the rail. After drilling, tap the hole, using the 10-32 tap. Repeat this step for all of the parts.

Step Four - Mark, Drill and Tap Second Hole

Insert a fastener through the part and hand tighten the part to the rail. (DO NOT APPLY ADHESIVE AT THIS TIME). Form the part to the radius of the rail. Be sure that the part fits flush to the rail and be sure that it is straight. Hold the part in place with one hand, and use the drill motor to drill the second hole. NOTE: There is a tendency to drill the second hole too close the first, leaving a slight wrinkle in the part. In order to avoid the wrinkle, the part should be taut (but flush). Once the hole is drilled, use the 10-32 tap. Test that the fastener will fit and that the part is straight and flush. Repeat this process until all of the second holes are drilled.



Step Five - Prepare Surface

Superior bonding is achieved by preparing the surface properly -roughing the surface. We recommend using a hand grinder to roughen and/or remove paint from hand rails where the SkateStoppers will be applied. If a grinder is not available, emery paper can be used. Once the surface has been roughened, wipe with a clean rag and Isopropyl Alcohol.

Step Six - Apply Adhesive

The adhesives that we offer have characteristics that make application faster and easier than other products. The non sag properties allow the material to be used on vertical surfaces without runs. As a standard, 50ML adhesive is supplied with small kits and 400ML adhesive is supplied with large kits.

ADH50ML and ADH400ML - These impact resistant epoxies have a work life of 10 minutes. Material can set in the mixing nozzle for approximately 6 minutes before it will start to harden. This material sets in approximately 12 minutes (depending on temperature) and full cure is achieved in 4 hours. When using this material, lay out all parts and anchors adjacent to their respective mounting locations prior to commencing with application of adhesive. Apply adhesive to one piece at a time and anchor the piece immediately. Trimming of excess material (Step 7) should be completed within one hour of application. Delaying trimming for any time longer than 1 hour may result in great difficulty with cutting through the adhesive.

DURING USE, ADHESIVE SHOULD BE STORED AT TEMPERATURE RANGE BETWEEN 60 DEGREES AND 80 DEGREES FAHRENHEIT.

DO NOT STORE ADHESIVE PACKAGES IN THE SUN. HEATED MATERIAL WILL ACCELERATE SET AND CURE TIMES, MAKING APPLICATION MORE DIFFICULT.

Follow the instructions for installing the adhesive and mixing nozzle into the applicator gun. The first 1/2" of material from the nozzle may not be properly mixed and should be discarded (Discard material until the color is uniform gray).

When you are ready, place the end of the nozzle in the part and squeeze the applicator trigger. Start applying adhesive in the outer most ring of the SkateStopper (the bead of adhesive should be higher than the edge of the cavity). Once the outer ring is filled, lay three beads in the hinges. For the SuperStopper, lay an additional bead across the part, diagonally from the hinge to the radius.

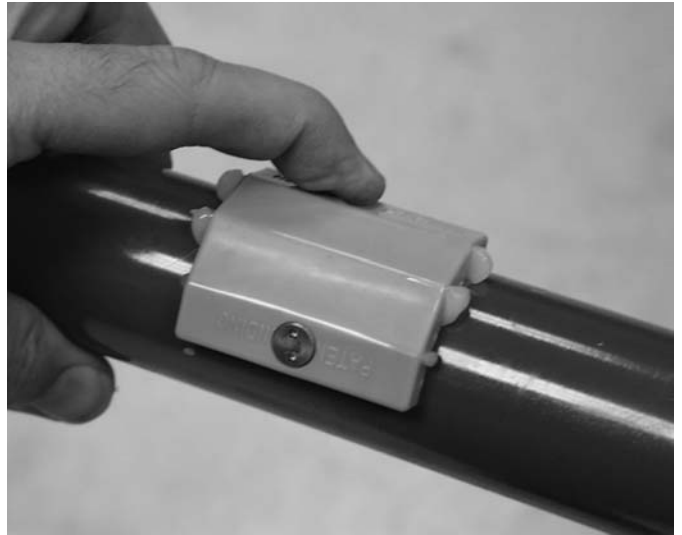
Note: If adhesive does not extrude from the center of the hinges when the part is installed under Step 6, you have not used enough. Failure to seal the side "V" gaps at the hinges with adhesive may afford pry points to vandals.

Storage: If there is adhesive remaining in the tube and you are finished, leave the mixing nozzle on. The mixing nozzle will act as a cap until the next time the adhesive is used. . .



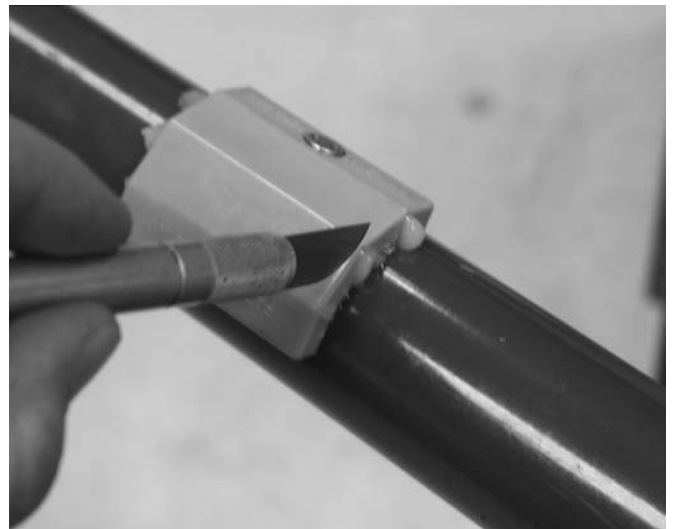
Step Seven - Apply the SkateStopper

Insert one tamper resistant screw through the part. Position the Rail Wrap on the rail and tighten the screw. Form the unsecured end of the part flush to the rail and hold in place with one hand. With your other hand, insert and tighten the second fastener. Repeat this process until all pieces are taped.



Step Eight- Trim Adhesive

The best time to perform the trimming is when the adhesive is soft but not tacky. You should be able to cut through it, leaving a clean edge. Refer to Step 6 for cure times.



Step Nine - No Skating Signs

If you haven't already done so, post "No Skating" signs on your property. If you are installing SkateStoppers in pedestrian traffic areas, your signs should include language warning pedestrians that SkateStoppers are installed. For specific recommendations on the language that your sign should contain, seek the advice of your Risk Management Department or legal counsel.