



The following are step-by-step instructions for the installation of skate deterrents. It is assumed that you have already removed the residual wax and plastic that is typically left behind by skate abuse (use a hand grinder or heated, high pressure water).

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

- 1) Skate deterrents and anchors
- 2) Adhesive, Adhesive Applicator and Mixing Nozzles
- 3) Hammer drill, ½ "drill bit, hole brush, and aspirator or vacuum
- 4) Cutting Knife
- 5) Drill Gun and Fastener Drive Bit
- 6) Isopropyl Alcohol
- 7) No Skating Signs
- 8) Protective Gloves, Dust Mask, and Safety Glasses

Step One - Product Layout

Skate deterrents are designed in a variety of colors 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 surfaces on which the product is to be applied should be measured. Make a mark on the working surface approximately 18" 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 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.

Loosely position product at the marked locations and examine the working surface 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.

WARNING: Do not apply skate deterrents to stairways or steps. Shortening the step platform may create a trip hazard to pedestrian traffic that could result in serious injury or death.



Step Two- Prepare "Marking Studs"

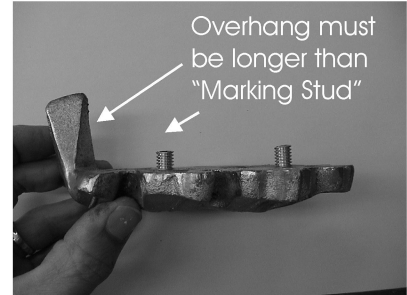
Assuming that the site has already been cleaned, has dried, and that the layout for the product has been decided, you will need to cut your "marking studs" ONLY CUT ONE SET (2 studs) FOR EACH PRODUCT IN A FAMILY. For Example, the White OAK family has six parts; therefore, you cut 12 "marking studs".



Cut one set of "marking studs"
(2 studs) for each part in the family



Use metal grinder or other cutter
to cut "Marking Studs"



"Marking Stud" must be cut shorter
than the part overhang

Large orders may include a full family set of parts to use as templates

Step Three- Marking Hole Locations

This product uses blind fasteners, thus marking the drill location requires the use of "Marking Studs". Assuming that the part layout has been defined, you will need to apply masking tape to the mounting surface at each part location. The masking tape will receive an impression made by each of the parts' "Marking Studs". Use quality tape that can be removed without leaving adhesive on the surface.

Apply the tape on the surface in sufficient width such that each of the two "marking studs" can make an impression on the tape. Push the part flush to the wall face, then apply downward pressure on the wall. Remove the part and check that there is an impression on the surface. Circle the impression and mark the center for drilling.

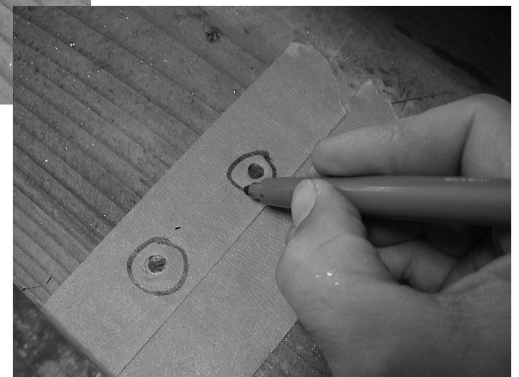


Apply masking tape to surface
(sufficiently wide for both studs)



Push part flush to edge, then
depress the mark so that the
"marking studs" make an
impression on the tape.

**NOTE: When installing Family Parts,
hole locations for each part in the
family may vary. We recommend
alphabetically coding the part at each
location (Type A, Type B, Type C, etc)**



Use a pen to mark the impression for drilling.

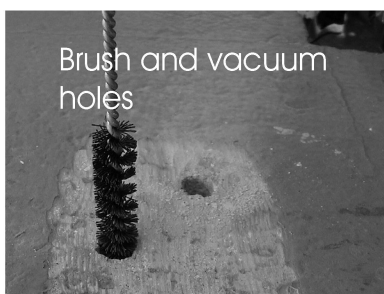
Step Four - Drill Holes

Once the holes have been marked, you are ready to drill. Using a hammer drill and a 1/2" drill bit, drill the marked holes to 2" depth. NOTE: START THE DRILL MOTOR SLOWLY SO THAT THE DRILL BIT DOES NOT WANDER. PRODUCT CANNOT BE INSTALLED ON MIS-ALIGNED HOLES.



Step Five - Bonding Preparation

Using a hand grinder (with a masonry attachment) clean area to which the bracket will be bonded (do not use a wire brush - as this will create a bigger mess). Next, use the enclosed nylon brush to brush the interior walls of the holes. Remove the dust from the holes (using a vacuum or aspirator). Wipe the bonding area free of dust with a clean rag and Isopropyl alcohol (rubbing alcohol). NOTE: FAILURE TO CLEAN THE HOLES AND SURFACE WILL RESULT IN INFERIOR BONDING.



Step Six - Set full length SMART PINS (studs) and Check Fit

Use a cordless drill and the supplied drive bit to set the full length Smart Pins (studs) into the bottom of each part. Check the fit of the part to the wall at each location.



Use cordless drill and supplied drive key to set the SMART PINS (studs) into each part.



Correctly aligned part set flush to top and face surface



Step Seven - Applying 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. Adhesives serve as a secondary bond against vandal attempts to remove parts and they serve to fill any gaps that may be present between the part and the treated surface (eliminating pry points).

These impact resistant epoxies have a work life of 10-12 minutes. New material should be flushed through the mix nozzle every 5-6 minutes to prevent the mix nozzle from clogging. When using this material, lay out all parts and anchors adjacent to their respective mounting locations prior to commencing with application of the adhesive (for optimal results, start the screws through the product until the threads are flush to the bottom of the part).

This material sets in approximately 10 minutes (depending on temperature) and full cure is achieved in 4 hours. Trimming of excess material (Step 7) should be completed within one hour after application. Delaying trimming for any time longer than one 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.

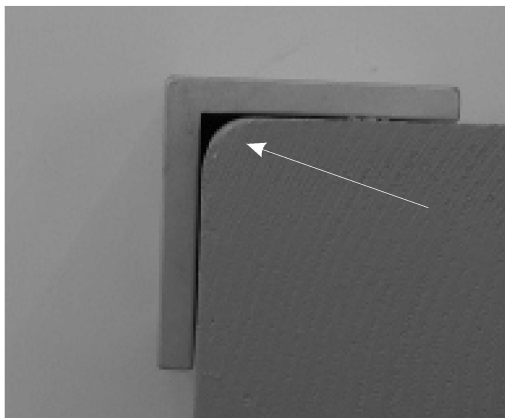
DO NOT STORE ADHESIVE PACKAGES IN THE SUN. HEATING MATERIAL WILL ACCELERATE CURE RATES, MAKING APPLICATION MORE DIFFICULT.

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 drilled hole and fill it $\frac{3}{4}$ full. Next, apply adhesive to the underside of the part. Apply a 1/4" bead from one end to the other in a spiral pattern. If you observed a gap between the edge and the inside corner of the part during fitting of the parts, lay a bead of adhesive on the inside corner of the part sufficient to fill the gap.

Note: If adhesive extrudes from the part when it is applied, do not wipe or smear (this will be trimmed later under Step 8).

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.



If you observe a gap between the part and the edge, use adhesive to fill gap.

Step Eight – Applying the Skate Deterrents

Immediately after applying adhesive, take the part, holding the adhesive cavity up, and place it on the marked position of the surface. Push the part flush to the top plane and face plane. If excess adhesive oozes from the part, follow the instructions in Step Nine

Step Nine - Trimming and Clean-up

The best time to perform the trimming is when the adhesive is soft. Run knife blade flush to part all the way to the concrete/substrate. This will create a seam on which the material can be later pulled.

Using a putty knife, the excess adhesive should be pulled when it has cured to the point that it peels cleanly from the substrate (refer to section 5 for set and cure times).



Step Ten - No Skating Signs

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