

# Handi-Treads Concrete Installation

## What you will need:

- Your Handi-Tread
- Clear liquid silicone (OPTIONAL)
- 3/16" drive pin anchors
- 3/16" masonry drill bit
- A hammer
- A power or hammer drill

We recommend using a hammer drill but a power drill will do the job. Types of Fasteners Handi-Treads recommends using drive pins to fasten your treads to your stairs. Ensure that each drive pin is at least  $\frac{3}{4}$ " long.

## Handi-Tread Concrete Stair Installation

1. Once you have acquired all of the necessary materials, align the tread in the desired position. If you are installing a nosing, make sure that it fits snugly at the edge of the stair. If you are installing a tread, set it back roughly  $\frac{1}{2}$ " from the edge. Using a marker and the tread as a template, place a dot in each of the pin holes to mark the placement of the drive pins on the concrete surface. Note that the pin holes are not raised, DO NOT use the raised traction bumps for your pin placement.



2. Remove the tread from the stair. Using a 3/16" masonry drill bit and your hammer/power drill at each marked spot, drill a hole into the concrete deep enough to accommodate the length of the concrete drive pin you are using. Make sure that you are drilling perpendicular to the surface. Use caution when drilling the holes. If the concrete is not in good condition or you are drilling too close to the edge, the concrete can fracture. This would prevent you from using this location and will necessitate the need to relocate the tread. To ensure that you are drilling deep enough, attach a piece of tape to the drill bit at the height of your screw. For example, if you are using a pin that is  $\frac{3}{4}$ " long, attach the tape  $\frac{3}{4}$ " above the tip of the bit.

In the picture below, the tape has reached the surface, indicating that the hole is at the perfect depth.



3. Make sure that the holes you have drilled are free of any concrete debris.

OPTIONAL: Deposit a small amount of clear silicone into each drilled hole.

As the pins are placed in their positions, the excess silicone will flow out of the hole leaving you with a watertight seal. This measure is taken to prevent any water from collecting within the pin hole, which might cause the concrete to fracture if it freezes and expands.

4. Place the tread back in position, making sure that each pin hole is above each drilled hole, then place a drive pin in each of the pin holes. Starting in the center of the tread, work your way to the outside, hammering each pin into its respective hole. Installation is complete when all of the drive pins have been hammered into position.