

Dura-Post® Base Placement Using Screw Anchors in Asphalt or Concrete

Caution: It is the responsibility of the installer to wear protective clothing and personal protective equipment (PPE) such as eye/hearing/respiratory protection, work gloves, safety toe shoes, and a reflective vest while doing the following work.

TOOLS & MATERIALS

- Posts & Bases
- Rotary Hammer Drill
- 9/16" Socket Wrench
- 3/8" Masonry Drill Bit
- 3/8" x 4" Anchor Screw Kit (PN 629585 or 629586)
- 5/16" Pin Removal Tool (PN 118428)
- Hammer

The installer must follow all safety precautions as described in the equipment manufacturer owner's manual.



Step 1. Ensure all parts are included.



Step 2. Locate and mark Dura-Post® location(s). Position the base so that the arrow is pointing toward oncoming traffic.



Step 3. Using the base as a template, drill holes 4" deep minimum.



Step 4. Remove the base and blow or vacuum dust.

Consult OSHA respiratory standards for crystalline silica exposure.



Step 5. Place the Base over the holes and firmly tighten the screws.



Step 6. Place the post with the holes aligned with the securing pin holes and secure with pin.

Dura-Post® Base Placement Using Nylon Expansion Anchors in Asphalt or Concrete

Caution: It is the responsibility of the installer to wear protective clothing and personal protective equipment (PPE) such as eye/hearing/respiratory protection, work gloves, safety toe shoes, and a reflective vest while doing the following work.

TOOLS & MATERIALS

- Posts & Bases
- Rotary Hammer Drill
- 9/16" Socket Wrench
- 3/8" Masonry Drill Bit
- 3/8" x 4" Lag Screw (PN 118508B) (3 per base)
- 20 mm x 90 mm Nylon Expansion Anchors (PN 118509B) (3 per base)
- 3/4" Masonry Drill Bit
- 5/16" Pin Removal Tool (PN 118428)
- Hammer

The installer must follow all safety precautions as described in the equipment manufacturer owner's manual.



Step 1. Ensure all parts are included - Drill Bits, Lag Screws, Nylon Expansion Anchors and Base.



Step 2. Locate and mark Dura-Post® location(s). Position the base so that the arrow is pointing toward oncoming traffic.



Step 3. Using the base as a template, mark the hole locations with a 3/8" drill bit.



Step 4. Remove the base and drill 3/4" dia. holes a minimum of 5" deep.

Consult OSHA respiratory standards for crystalline silica exposure.



Step 5. Place the Nylon Expansion Anchors in the holes and tap with a hammer until they are flush with the road surface.



Step 6. Place the Base over the holes, and firmly tighten the screws.



Step 7. Place the post with the holes aligned with the securing pin holes and secure with pin.

Dura-Post® Base Placement Using Safe-Hit EPOXY For Placement on Asphalt or Concrete

Caution: It is the responsibility of the installer to wear protective clothing and personal protective equipment (PPE) such as eye/hearing/respiratory protection, work gloves, safety toe shoes, and a reflective vest while doing the following work.



Step 1. Check that you have all necessary tools and parts for the job. You should have post(s), surface mount base(s) and epoxy kit(s) (allow one epoxy kit per base). Bulk epoxy containers are also available. Approved epoxy is either Safe-Hit SHEPX-13--KI or FIRMMarker EAS-06.



Step 2. Locate and mark Dura-Post® location(s). A clean dry surface is required. Prepare each base site by blowing or sweeping.

Note: Do not attempt to apply the adhesive when the ambient temperature is below 41°F (5°C) or above 104°F (40°C). The adhesive is easiest to work with if warmed to approximately 80°F (26°C).



Step 3. Mix epoxy kit 4 oz. Part “A” and 4 oz. Part “B”. The mixed epoxy color should be gray with no black or white streaks. Note: for OGFC asphalt use 6 oz. of each Part A & Part B.



Step 4. Apply epoxy evenly to the bottom of the base.



Step 5. Press the base down firmly on the road surface until epoxy appears around the edge. The arrow must face oncoming traffic.

Step 6. Epoxy must set before post placement. Allow one hour at 80°F or longer in cooler conditions.



Step 7. Insert the post and drive the securing pin in place with a hammer. To remove the post, use the pin removal tool to remove the securing pin, then lift the post from the base.

Note: It is the responsibility of the installer to follow all epoxy manufacturer safety precautions.

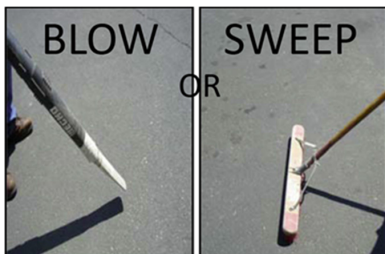
Dura-Post® Base Placement Using Hilti HIT-RE 500 V3 EPOXY For Placement on Asphalt or Concrete

Caution: It is the responsibility of the installer to wear protective clothing and personal protective equipment (PPE) such as eye/hearing/respiratory protection, work gloves, safety toe shoes, and a reflective vest while doing the following work.

TOOLS & MATERIALS

- Hilti HIT-RE 500 V3, 330 ml [11.1 fl oz.] (one cartridge supports two and a half bases)
- Hilti HIT-RE 500 V3, 500 ml [16.9 fl oz.] (one cartridge supports four bases).
- Hilti HDM Manual Dispenser
- Hilti “Black” Cartridge HIT-CB 500
- Utility knife
- Broom or Motorized Blower
- Gloves
- 5/16” Pin Removal Tool (PN 118428)
- Hammer

Step 1. Check that you have all necessary tools and parts for the job.



Step 2. Locate and mark Dura-Post® location(s). A clean dry surface is required. Prepare the base sites by blowing or sweeping.



Step 3. Trim the mixing nozzle to its largest opening.



Step 4. Apply epoxy to the bottom of the base as shown.



Step 5. Position the base so that the arrow is aligned with the direction of oncoming traffic and press down firmly on the road surface until epoxy appears around the edge.

| Temp | Set Up | Initial Cure | Full Cure |
|-------|-----------|--------------|-----------|
| 95° F | 12 min | 2 hours | 4.5 hours |
| 72° F | 25 min | 4 hours | 6.5 hours |
| 50° F | 1.5 hours | 12 hours | 24 hours |
| 32° F | 2 hours | 24 hours | 36 hours |

Step 6. Follow the epoxy guidelines and allow an initial cure before post placement and service.



Step 7. After the initial cure, insert the post and drive the securing pin into place with a hammer. To remove the post, use the pin removal tool to remove the securing pin, then lift the post from the base.

Dura-Post® Base Placement Using Butyl Pad For Placement on Asphalt or Concrete

Caution: It is the responsibility of the installer to wear protective clothing and personal protective equipment (PPE) such as eye/hearing/respiratory protection, work gloves, safety toe shoes, and a reflective vest while doing the following work.

Note: Butyl pads should only be used for temporary or slow-speed applications such as work zones and parking lots.



Step 1. Check to ensure you have all parts necessary for the job. You should have post(s), surface mount base(s) and Butyl Pad(s). Allow one Butyl Pad per base.

Step 2. Locate and mark Dura-Post® location(s). A clean, dry surface is required.

Step 3. Sweep or blow off area with compressed air to remove all gravel, sand and other debris within a one foot diameter where the base will be applied.

Note: For optimum performance, the recommended temperature is 50°F or above. In lower temperatures, the bases and pads should be warmed to this temperature prior to use.



Step 4. Remove the release paper from one side of the Butyl Pad and place Butyl Pad on the ground with the exposed surface facing up.



Step 5. Set the Dura-Post® base on the Butyl Pad, centering it within the edges of the pad. Press on the base to secure it to the pad.



Step 6. Lift the base and remove the remaining release paper from the other side of the pad.



Step 7. Place the base in position with the arrow pointing toward oncoming traffic. Press base down firmly on surface.



Step 8. To properly set the base, drive a vehicle's front tire onto the base and remain for 10 to 15 seconds.



Step 9. Insert the post and drive the securing pin in place with a hammer. To remove the post, use the pin removal tool to remove the securing pin, then lift post from base.

Dura-Post® Soil Anchor Placement

Caution: It is the responsibility of the installer to wear protective clothing and personal protective equipment (PPE) such as eye/hearing/respiratory protection, work gloves, safety toe shoes, and a reflective vest while doing the following work.



Step 1. Check to ensure you have all parts necessary for the job. You should have post(s), soil anchor(s), a 5/16" X 3" bolt and one 5/16" nut for each. You will also need a SH-30 drive tool.

Step 2. Locate and mark Dura-Post® location(s).

Step 3. Position the anchor so the bolt will be perpendicular to the traffic direction upon completion.

Step 4. Keep the anchor vertical when driving it into the ground. This will ensure that the post will be vertical.



Traffic Direction

Step 5. Drive the anchor into the ground until the holes are 1/4" above the ground.



Bolt & Lock Nut

Step 6. Insert the post and align the post holes with the anchor holes. Use a bolt and lock nut to secure the assembly.