

## Impact Recovery Systems

### Installation Instructions—#BS-SMxx Surface Mount Base

It is the responsibility of the owner and installer to determine the suitability of the substrate for proper anchorage and the method used. Substrate should generally be properly installed, in good repair and crack free. Connection to the road surface is the responsibility of others. Road surfaces and installation conditions vary widely from location to location. Consult a local licensed engineer as necessary to ensure proper installation. IRS cannot provide site specific engineering recommendations with regard to road connections.

#### ANCHOR KIT (#IM-ANCHOR-KIT)

Kit contains four each: 16mm x 3" plastic sleeve, 1/2" x 4" lag screw, 1-1/4" metal washer

Recommended Tools: Hammer drill with 5/8" bit, small hammer, 3/4" wrench or socket, 1/4" Allen wrench (fixed style only)

1. Place Fixed Base on surface and align arrows to the desired position in the direction sign face or post will face. Mark anchor holes.
2. Drill four (4) holes 3" deep using a 5/8" bit. Clean holes.
3. Using a small hammer, gently tap the plastic sleeves into the holes. Top of sleeve should be flush with surface.
4. Place the base over the anchors. Assemble washer to lag screw. Start lag screw through anchor holes into plastic sleeves. Use 3/4" wrench to tighten lag screws snug into base. Washer will rest on top of base and not in counter-sunk holes.



#IM-ANCHOR-KIT



#### EPOXY

#### FOR BEST RESULTS CLOSELY FOLLOW THE EPOXY MANUFACTURER'S INSTALLATION RECOMMENDATIONS

1. Check the bottom of base for tape covering t-nuts (fixed style only). Tape prevents epoxy from entering screws threads upon installation.
2. Pavement surface must be clean, dry, and free of dirt, debris, and oil.
3. Flame treat the underside of the base prior to installation. Quickly passing a cool flame over the plastic surface greatly increases adhesion. Do not overheat.
4. Mix epoxy as directed and closely follow epoxy instructions. Time, temperature, pressure, mix ratios, working life and shelf live all vary by manufacturer. Use a total of approximately 16 to 20 ounces per base.
5. Align the base with arrows facing traffic and push into epoxy. Rotate base 90 degrees and back, filling underside channels and holes in base with epoxy. Allowing epoxy to fill anchor holes will increase adhesion through mechanical bonding.
6. Epoxy should extend around sides of fixed base.
7. Allow epoxy to dry 24 hours for optimum performance. Most epoxies are temperature sensitive. Take care to follow manufacturer's recommendations.



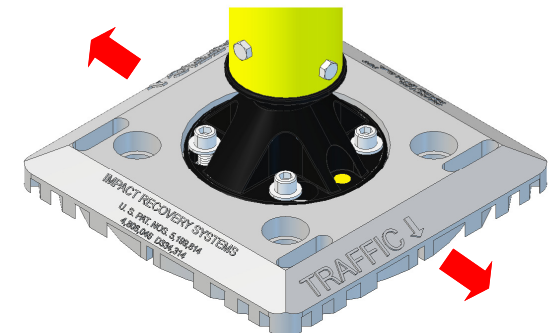
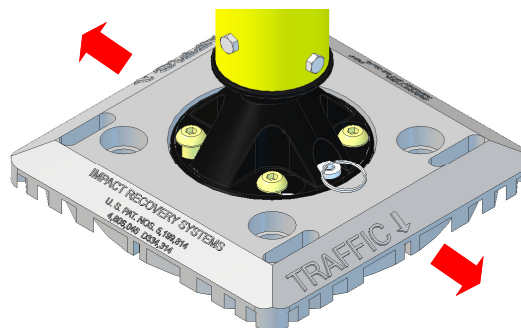
Epoxy



Installed Base

#### Post Installation:

1. Place the sign or post into the base and check for proper alignment. For fixed bases, insert and tighten all four socket cap screws with 1/4" allen wrench. For quick release bases, set spring unit on shoulder washers and turn slightly counterclockwise until pull pin fully seats.
2. Ensure proper alignment of the spring and base with traffic. The pull-pin holes in the lower part of the spring should align with traffic and indication on surface mounted base. See diagrams at right.



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**Installation Instructions—#BS-SMxx Surface Mount Base**

SUPER BUNDY® PLUS ADHESIVE (#IM-SBK)

**SUPER BUNDY IS ONLY RECOMMENDED FOR USE WITH DELINEATORS AND TUBULAR MARKERS WHEN INSTALLED ON A FIXED BASE.**

**General Requirements:**

- Moisture:** Pavement must be dry.
- Surface:** Asphalt and concrete must be free of dirt, dust chemicals or significant oily substances. Do not apply on top of paint, cold plastic, or Greenlite. It can be applied on top of thermoplastic, provided it is clean.
- Material:** SUPER BUNDY® PLUS must be kept dry at all times. Store between 35° and 90° F. Shelf life is 12 months.
- Safety:** Be sure to use proper safety equipment such as gloves and safety goggles. Use appropriate caution when using an open flame.

**Instructions:**

1. SUPER BUNDY® PLUS is a two-piece system. Do not attempt to use only a single piece as this will result in inadequate bonding.
2. Check the bottom of fixed base for tape covering t-nuts (fixed style only). Tape prevents epoxy from entering screws threads upon installation.
3. Pavement surface must be clean and dry.
4. Pre-heat the pavement surface using a propane fueled torch.
5. Position the first piece of SUPER BUNDY® PLUS on the pre-heated pavement surface.
6. Begin heating the material by moving the flame from the torch slowly and steadily over the material in a sweeping motion. Evenly heat the material until it melts completely to bond with the pavement. A brownish film will typically form on the surface when material has reached molten stage. Continue to heat the adhesive pad until the well defined edges of the pad are no longer visible.
7. Without delay, position the second pad directly on top of the molten piece.
8. Heat the second adhesive pad until it is completely molten, in the same way as the first. When complete, the pads should appear as a puddle of molten adhesive.
9. Position the Fixed Base directly on top of the molten adhesive and apply slight downward pressure to ensure embedding and bonding. Twist back and forth slightly. It is important to ensure that there is a small cushion of SUPER BUNDY® PLUS material remaining between the pavement and the Fixed Base.
10. Curing is complete when the SUPER BUNDY® PLUS material has cooled down to a temperature that the fixed base can no longer be moved.



#IM-SBK Super Bundy Kit



Heating Adhesive Pad



Placing Second Pad



Molten Puddle