

# **Impact Recovery Systems** **Installation Instructions—#BS-SMQT Surface Mount Quarter Turn Base**

It is the responsibility of the owner and installer to determine the suitability of the substrate for proper anchorage. Substrate should generally be properly installed, in good repair and crack free. Consult with owner’s engineers as needed.

## **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 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.



#IM-ANCHOR-KIT



## **EPOXY KIT**

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

1. Pavement surface must be clean and dry.
2. Flame treat the underside of the base prior to installation. Quickly passing a cool flame over the plastic surface for proper adhesion. Take care to avoid melting plastic.
3. 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 24 ounces per base (high end for high speeds).
4. 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.
5. Epoxy should extend around sides of fixed base and through anchor holes.
6. Allow epoxy to dry 24 hours for optimum performance. Most epoxies are temperature sensitive. Take care to follow manufacturer’s recommendations.



Epoxy Kit



High Speed Application

### **Post Installation:**

1. Start by inserting the threaded post into the base with holes aligned 90° to keeper pin slot. Push down to insert the post and rotate clockwise until fully seated.
2. Install L-shaped keeper pin through base and into post hole such that the pin lies flat in the retention slot on top of the base.

