

# Earth Shield® Stainless Steel Chemical Resistant Waterstop Retrofit Jobsite Installation Guide

1. Prepare existing concrete by grinding away any irregularities.
2. Thoroughly clean existing concrete using:
  - A. Wire brush or needle gun
  - B. High pressure water blast
  - C. Sand blast

*Remove all dust, grease and laitance.*
3. Apply continuous bed of epoxy paste using a 1/8" notched trowel to provide approximately 1/8" deep by 2-1/2" wide bed of epoxy. Increase epoxy depth to fill in voids or irregularities in concrete where necessary.
4. Place Stainless Steel Retrofit Waterstop directly onto epoxy paste bed.
5. Drill 1/4" holes 2-3/4" deep through pre-punched (6" on-center), stainless steel waterstop, concrete, and epoxy using a percussion or rotary hammer drill. (20 holes per 10 lft length of waterstop — one hole every 6 inches.)
6. Hammer stainless steel wedge anchors into drilled holes, passing anchor through stainless steel waterstop and epoxy bed. Repeat for all holes. Tighten bolts on wedge anchors to ensure tight mechanical bond between the stainless steel waterstop, epoxy and concrete.

*For welding, fabrication, placement, execution, and quality assurance please follow all procedures stated in Earth Shield Master Specification Section 03250.*

**Earth Shield® Chemical Resistant Waterstop**

551 Birch Street, Lake Elsinore, CA 92530

888-836-5778 • FAX 909-674-1315 • [www.earthshield.com](http://www.earthshield.com) • davidp@earthshield.com