

# Type 10

The Preferred Choice of Major Developers

## High-Quality Mastic Sealant Waterstop for Concrete Construction Joints

Earth Shield® Type 10 is a high-quality, self-sealing mastic waterstop which prevents water from penetrating non-moving joints in concrete construction.

Type 10's ease of installation makes it the ideal choice for a variety of applications, including:

- Concrete Vaults
- Utility Vaults
- Septic Tanks
- Burial Vaults
- Retaining Walls
- Tunnels
- Storage Tanks
- Box Culverts
- Pipe Penetrations
- Slabs-on-grade
- Foundations
- Cast-in-Place Applications

### The Type 10 Advantage

- Provides permanently flexible watertight joints.
- Quick and easy to install. Does not require skilled labor.
- Excellent adhesion to clean dry surfaces.
- Sealed joints will not shrink, harden or oxidize upon aging.
- Rugged service temperature: -30°F to 200°F (-34°C to 93°C).

### Installation Instructions

1. Brush and remove loose dirt and particles from the surface.
2. Brush one coat of Type 10 Primer Adhesive on to the clean, concrete surface. Type 10 Primer Adhesive is available in one gallon cans.
3. Allow primer to cure (per directions on can).
4. Press Type 10 firmly onto the primed surface.
5. Overlap ends (1" minimum), and join with a kneading action, press ends together until there is no separation or air pockets.
6. Remove separation paper.
7. You are now ready for your second pour.

### Suggested Short Form Guide Specification

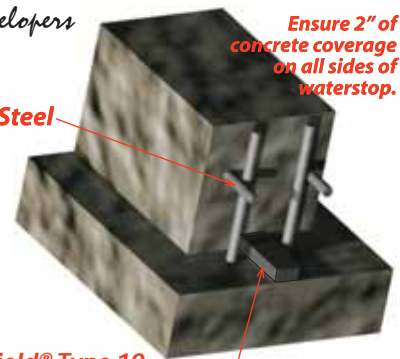
Waterstop indicated in drawings and specifications for construction joints to be **Earth Shield® Type 10 Waterstop** as manufactured by **JP Specialties, Inc.** — 551 Birch Street, Lake Elsinore, CA 92530 — Phone 800-821-3859; International 951-674-6869; Fax 951-674-1315; Web [www.jpsspecialties.com](http://www.jpsspecialties.com) ; E-mail [jpspec@jpsspecialties.com](mailto:jpspec@jpsspecialties.com)

1. Size: 3/4" x 1" x 16'-8" continuous.
2. Required hydrostatic pressure resistance: 20 psi.
3. Required certification to Federal Spec. SS-S-210A.
4. No equals or substitutions allowed.

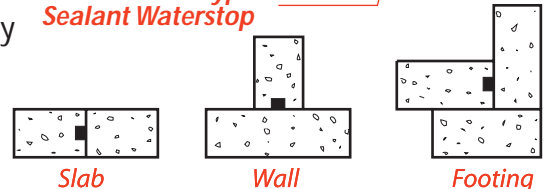
[www.jpsspecialties.com/jpproduct.html](http://www.jpsspecialties.com/jpproduct.html)



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Earth Shield® Type 10 Sealant Waterstop



Slab

Wall

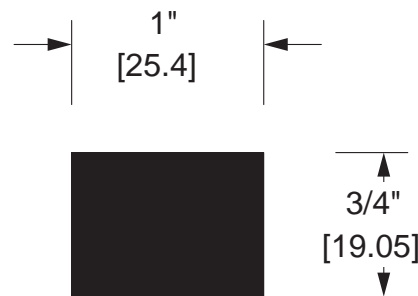
Footing

### Typical Physical Properties

Type 10 Waterstop is certified for use in Federal Specification SS-S-210A.

Type 10 Waterstop is certified for use in U.S. Army Corps of Engineers Guide Specification for Military Construction CEGS 03250 Section 2.4.5 Preformed Elastic Adhesive.

Hydrocarbon Content ASTM D4	52%
Specific Gravity, 77°F ASTM D71	1.22
Inert Mineral Filler Federal Spec SS-S-210A	48%
Volatile Matter ASTM D6	1%
Softening Point, Ring and Ball ASTM D36	370°F (188°C)
Penetration, Cone 77°F 150 gm. 5 sec. ASTM D217	62 mm
Flash Point, C.O.C., °F ASTM D92	630°F (332°C)
Fire Point, C.O.C., °F ASTM D92	630°F (332°C)
Color	Black
Packaging	6 rolls per carton 100 ft. per carton 3/4" x 1" x 16'8"



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# Earth Shield® Type 10 Waterstop Hydrostatic Pressure Test Procedure and Results

1. Test procedure: Select a 14" diameter by 3" thick circular concrete test specimen.
2. The specimen shall be manufactured with six pieces of rebar placed approximately 1-1/2" from the edge of the specimen.
3. The rebar shall be equally spaced around the circumference of the test specimen.
4. The top of the specimen shall consist of a flat surface with the rebar protruding out.
5. With a 1" wide paint brush, apply a 1" wide strip of Earth Shield primer around the circumference of the area closest to the inside of the protruding rebar posts.
6. After allowing primer to thoroughly dry, apply a single piece of Earth Shield Type 10 Waterstop 3/4" x 1" x 16'-8" to the primed area; the ends of the piece shall be molded together in order to form a continuous seal.
7. A sheet of 15-pound tarpaper shall be placed on the remaining exposed concrete surface of the test specimen. The tarpaper creates a separation between the precast section and the cast in section of the test specimen.
8. Plumbing connections and a forming ring shall be placed over the precast test specimen.
9. Concrete is poured into the forming ring casting the Type 10 Waterstop into the test specimen. Allow the test specimen to cure for 48 hours before removing forming ring.
10. Threaded rods and clamping brackets shall be placed over the test specimen.
11. Begin testing by filling the center cavity with water allowing the concrete to become saturated for 12 days. Water shall be added as needed.
12. Hydrostatic pressure is introduced into the center cavity and maintained for the duration of the test.

## Results

PSI	Hours	Result
10	168	No leaks
13	168	No leaks
20	168	No leaks

# Earth Shield® Type 10 Waterstop Water Treatment Chemicals Immersion Testing

## Results

Solution	Days	Result
5% Caustic Potash	30	No deterioration
5% Hydrochloric Acid	30	No deterioration
5% Sulfuric Acid	30	No deterioration
5% Saturated Hydrogen	30	No deterioration
5% Hydrogen Sulfide	30	No deterioration

*Distributed by:*



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