Type NB190® is a modern, hydrophilic rubber waterstop with unmatched durability and watersealing capabilities. Manufactured NON-BENTONITE, modified chloroprene rubber, Type NB190® more than doubles its original size (400% volume swell) when exposed to water. This expansion creates an effective compression seal within joints of limited to no movement. Type NB190® can expand and reexpand unlimited times with virtually no loss of physical properties. Additionally, Type NB190® has excellent resistance to many chemicals, is heat-resistant, and can be safely used in drinking water.

**Typical Applications**
- Water treatment plants
- Wastewater treatment
- Pipe penetrations
- Storage tanks
- Slab on grade
- Foundations
- Tunnel segments
- ... And many more

**Earth Shield® Chemical Resistant Waterstop**
Phone: 800-821-3859; 951-763-7077
Fax: 951-763-7074

[www.earthshield.com](http://www.earthshield.com)
Earth Shield® Modified Chloroprene Strip Applied (SA) Waterstop Basic Use

Earth Shield® Modified Chloroprene Strip Applied Waterstop is used as a fluid-tight diaphragm, running along the joint, for water treatment plants, waste water treatment plants, and fluid containment structures. Earth Shield® Modified Chloroprene Strip Applied Waterstops are intended for non-moving construction joints only.

Installation

Install Earth Shield® Modified Chloroprene Strip Applied Waterstops in all non-moving, concrete construction joints. Waterstop should be centered in, and run the extent of the joint. Adhere to concrete using Type NB190® Adhesive. Ensure that minimum concrete clear cover is three inches on all sides of the waterstop (two inches for Profile B).

Specifications

Standard 3-part Specifications are available at our website in Microsoft® Word and Adobe® PDF format. Call our Technical Sales Staff for additional help with your specification.

Suggested Proprietary Short Form Guide Specification Section 03150 (Master Format 2004 — 03 15 13) Earth Shield® Modified Chloroprene Strip Applied Waterstop

Waterstop indicated in drawings and specifications for non-moving construction joints shall be Earth Shield® Modified Chloroprene Strip Applied Waterstop Type NB190® Profile No. #### [Designer insert appropriate profile number here [A, B, or C]] as manufactured by J P Specialties, Inc.; Murrieta, CA 92562; Phone 951-763-7077

1. Earth Shield® Modified Chloroprene Strip Applied Waterstop shall be manufactured from chloroprene and contain no bentonite.
2. Earth Shield® Modified Chloroprene Strip Applied Waterstop shall have a maximum compression set of 45% or under.
3. Minimum concrete cover shall be no less than 3 inches.
4. Adhere to concrete using Type NB190® Adhesive.
5. No equals or substitutions allowed.

Unlike bentonite-based, strip applied waterstop, Earth Shield® Modified Chloroprene Strip Applied Waterstops do not lose their structural integrity and can expand and reexpand an unlimited number of times without polymer degradation.
**Unrestrained Hydrophilic Expansion**

- Fresh Water, 24 Hours: 115%
- Fresh Water, 48 Hours: 283%
- Fresh Water, 168 Hours: 388%
- Fresh Water, 852 Hours: 400%

**Hydrostatic Pressure Test Results**

- 20 PSI, 120 Hours: No leaks
- 30 PSI, 120 Hours: No leaks
- 50 PSI, 120 Hours: No leaks
- 100 PSI, 4,320 Hours: No leaks

**Property** | **Test Method** | **Required Results**
---|---|---
Pressure Resistance | | 231 ft of Water Head Pressure
Shore A Hardness (5 sec.) | ASTM D2240 | 36.4 (77°F)
Specific Gravity | ASTM D792 | 1.46
Tear Strength | ISO 8067 | 5.56 lb/inch
Compression Set | ASTM D395 | 45% at 25°C (77°F)
Swelling (fresh water) | | 400%
Swelling (salt water) | | 46%
Chemical Resistance | ASTM D471 | Meet or exceed specific testing standards for contained fluids as required by Owner and certified by Manufacturer

Contact the “Waterstop Experts” at 951-763-7077
Availability
National and International Warehouses

Earth Shield® Modified Chloroprene Strip Applied Waterstop is readily available from a variety of sources:

- **Preferred Regional Stocking Partners** — We are partners with some of the very best Concrete Accessories Distributors in the world. All our preferred partners have large stocking inventories and are factory trained to provide the utmost in on-site assistance.
- **Distributor Sales** — Earth Shield® can be special ordered from many distributor sales channels throughout the world.
- **Factory Direct** — Earth Shield® may be contacted directly for project quotation and product purchase (call 800-821-3859).

Services

- **Project and Product Certification** — We assist the Design Engineer and Project Owner with individual project and product certification. When you specify our waterstop, you can be assured it is the correct product for your application.
- **Take-off Assistance** — For the Contractor.
- **Shop Drawings** — 3-D isometric and 2-D CAD details are available to assist the project.
- **On-site waterstop installation assistance** — $1,000.00 per day
- **Telephone and Web-based assistance** — Always FREE

Earth Shield® Waterstop Limited Warranty

J P Specialties, Inc. warrants to the Buyer that this product is new and will be free from defects and will perform as represented in writing subject to the two (2) following conditions: First, the application of the product and the concrete construction practices used in the application are in accordance with J P Specialties, Inc. recommendations; and, Second, the Buyer has selected the proper product for the specific application required.

Any information supplied in good faith by J P Specialties, Inc. with respect to its products is believed to be correct. J P Specialties, Inc. Makes no representation or warranties, expressed or implied, as to the accuracy or completeness of such information.

The exclusive remedies of the Buyer and the limit of the liability of J P Specialties, Inc. from any and all losses or damages resulting from the use of this product shall be either full refund of the purchase price to the Buyer of this product or the replacement of the quantity of product purchased by the Buyer at the discretion of J P Specialties, Inc.

All supplied testing data has been performed by independent testing laboratories.