

# Hydro-Flex® Waterstop

## Physical Properties

<p>Appearance.....Black strips (coiled)          Unrestricted Swell (by volume), 7 days.....200% min.          Specific Gravity .....1.20 to 1.35          Flow Resistance .....No flow, slump or loss of adhesion          (In vertical position 5 days at 135° F)          Elongation to Break.....216%          Resistance to Hydrostatic Head .....50 feet of water (min.)          (On non-moving joints)</p>	<p><b>Sizes</b>          Length/coil .....16 ft. 8 in.          Cross section.....Trapezoidal Shaped 1-1/8 in. x 1/2 in.</p> <p><b>Packaging</b>          No. coils/carton .....6 coils          Lineal ft./carton .....100 ft.</p> <p><b>Coverage</b>          Coverage .....100 ft.          Required primer .....1 gal. per 200 lineal ft.          (Use in conjunction with <b>Synko-Flex® Primer</b>)</p>
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## Description

**Hydro-Flex® Waterstop** is a preformed adhesive hydrophilic waterstop designed to swell in the presence of water providing a watertight seal in cold joints on concrete structures. This highly advanced product is made from butyl rubber, polypropylene elastomers, hydrophilic fillers and plasticizers providing a more uniform and controlled volumetric expansion upon contact with water. **Hydro-Flex® Waterstop** is self-adhesive and bonds to a wide variety of substrates. Its ability to swell, allows it to penetrate into poorly consolidated concrete surfaces.

## Features

- Easy to use.
- Swells into unconsolidated concrete surfaces upon contact with water.
- Eliminates split forming, wiring to rebar, heat welding of splices.
- Remains flexible in cold weather.
- Excellent chemical resistance.
- Bonds to most all substrates.

## Uses

**Hydro-Flex® Waterstop** is designed to provided a watertight seal within cold joints at footings, walls and slabs on a wide range of concrete structures including; residential and commercial basements, secondary containment structures, highway tunnels, concrete lined storm drainage and irrigation channels, pedestrian tunnels and below-grade walkways, below-grade parking garages, wastewater treatment plants, and water theme parks.

## Surface Preparation

Joint surfaces should be clean and dry before priming and just prior to placing the **Hydro-Flex® Waterstop**. Concrete should cure a minimum of 24 hours prior to priming. Ensure that concrete surfaces are free from form oils, release agents, curing compounds, laitance, and other dirt or debris. Use a wire brush or stiff bristle brush to clean surface prior to priming.

## Positioning

**Hydro-Flex® Waterstop** is generally positioned in the center of the joint. It may be place at the bottom of a keyway, if a keyway is incorporated into the joint design. However, a keyway is not required for the use of **Hydro-Flex® Waterstop**. Two inches of concrete coverage is required when using **Hydro-Flex® Waterstop**.

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## Application

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Apply Synko-Flex® Primer to the cured surface and allow to dry. Drying time generally takes 2 to 3 hours. Drying time will take longer in low temperatures and in humid environments.

Leaving the silicone release paper in place, begin uncoiling the Hydro-Flex® while pressing the strip firmly onto the primed surface throughout the entire length of the strip. Tightly butt ends together at splices. Alternatively, ends may be spliced together with a 1-inch side lap, if space permits (remember 2 inches of concrete coverage is required). Remove the release paper and pour concrete directly against the Hydro-Flex® Waterstop. The waterstop sealing system is complete when the fresh concrete cures.

**Do not allow Hydro-Flex® to be exposed to rain or standing water for more than 3 hours prior to pouring.**

## Limitations

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Hydro-Flex® Waterstop is designed for use in non-moving joints. Contact manufacturer regarding specific applications where joint movement may be expected. **Do not allow Hydro-Flex® to be exposed to rain or standing water for more than 3 hours prior to pouring.**

## Precautions

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Primer is flammable. Use caution around open flame.

## Limited Warranty

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Specifications and other information contained herein supersede all previously printed matter and are subject to change without notice. All goods sold by the seller are warranted to be free from defects in material and workmanship. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any implied warranties of merchantability or fitness. Seller shall not be liable for incidental or consequential losses, damages or expenses, directly or indirectly arising from the sale, handling or use of the goods, or from any other cause relating there-to, and seller's liability hereunder in any case is expressly limited to the replacement (in the form originally shipped) of goods not complying with this agreement or at seller's election, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such goods, whether such claims are for breach of warranty or negligence. Any claim by buyer with reference to the goods sold hereunder for any cause shall be deemed waived by buyer unless submitted to seller in writing within thirty (30) days from the date buyer discovered or should have discovered any claimed breach.