

Physical property	Typical value	Test method
Appearance	Black strips	-
Ductility	5.0 min.	ASTM D113
Flash Point	600°F min.	ASTM D92
Flow Resistance	No Flow	Fed. Spec SSS-210 (in vertical position 5 days at 135°F)
Hydrocarbon Content	50% to 70%	ASTM D4
Penetration	50 to 120	ASTM D217
Resistance to Hydrostatic Head	68 feet of water (on non-moving joints)	-
Softening Point	320°F	ASTM D36
Specific Gravity	1.20 to 1.35	ASTM D71
Volatile Matter	2.0% max.	ASTM D6

### Approvals and Certifications

- Meets Federal Specification SSS-210
- Certified NSF/ANSI Standard 61 for use in potable water systems

### Description

**Henry<sup>®</sup> Synko-Flex<sup>®</sup> Waterstop** is a specially formulated non-swelling preformed joint sealant that provides a lasting, watertight bond to both fresh and cured concrete surfaces. It is a single component, self-sealing adhesive compound, extruded in a square cross-section between two quick-release protective wrappers. It bonds to cured concrete surfaces and fuses with fresh concrete during the hydration and curing process to achieve a watertight seal within cold joints at footings, walls and slabs on a wide variety of concrete structures. It does not rely on swelling to achieve its watertight seal, and therefore, it is unaffected by rain or wet conditions which may occur prior to joint completion.

### Features

- Easy to install
- Eliminates split forming, wiring to rebar, heat welding of splices
- Unaffected by rain or wet conditions during installation
- Excellent chemical resistance
- Bonds to most all substrates
- Unaffected by cyclic wetting and drying
- Never a risk of fracturing concrete like swelling type waterstops
- Safe for use in potable water structures

### Usage

**Synko-Flex<sup>®</sup>** is designed to provide a watertight seal of cold joints in 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, swimming pools and water features, below-grade parking garages, waste-water treatment plants, fish hatcheries and aquariums, potable water reservoirs, and water theme parks. **Synko-Flex<sup>®</sup>** may also be used to seal around concrete, steel, PVC, or HDPE pipe penetrations through concrete walls or floor slabs. **Synko-Flex<sup>®</sup>** is also ideal for use as a joint sealant on precast structures such as box culverts, septic tanks and utility vaults.

### Application

**Surface Prep:** Joint surfaces should be clean and dry before priming and just prior to placing the **Synko-Flex<sup>®</sup>** strips. Concrete should cure a minimum of 24 hours prior to priming. Ensure that concrete surfaces are free from form oils, release

## Henry Synko-Flex® Waterstop

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agents, curing compounds, laitance and other dirt or debris. Use a wire brush or stiff bristle brush to clean surface prior to priming.

**Positioning:** Synko-Flex® is generally positioned in the center of the joint. It may be placed 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 this product. Two inches of concrete coverage is recommended.

**Standard Method:** Apply 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.

Peel the protective release paper from one side of the Synko-Flex® strip. Place the strip onto the primed surface pressing firmly along the entire length of the strip. The strip should be depressed to approximately 5/8 inch in thickness forcing it to widen to approximately 1-1/2 inches. Splice strips together with a 1-inch overlap or side lap. Remove the remaining release film. Fresh concrete may then be poured directly against the Synko-Flex®. The waterstop sealing system is complete when the fresh concrete cures.

In cold weather, both the Synko-Flex® strips and the concrete surface should be warmed just prior to application.

**Alternate Application Method:** Synko-Flex® may also be installed directly in the fresh concrete.

**Horizontal Applications:** Peel the protective release paper from one side of the Synko-Flex® strip. While concrete is still wet, carefully press the Synko-Flex® strips into the fresh concrete, leaving approximately ½ inch exposed above the concrete surface. When concrete cures, remove remaining release film, and continue with pour.

**Vertical Applications:** Peel off release paper from one side of the strip, leaving the polyethylene release film on the formwork side of the Synko-Flex® to prevent the Synko-Flex® from adhering to the formwork and to keep the Synko-Flex® clean once the forms are removed. The Synko-Flex® is then nailed to the inside of the concrete form using small finishing nails. Chamfer strips (1/2") should be positioned on each side of the Synko-Flex® strip. Finishing nails will pull through the Synko-Flex® strips when end form is removed.

**Limitations:** Synko-Flex® is designed for use in non-moving or reinforced joints. Contact manufacturer regarding applications where limited movement could be expected.

Incompatible with flexible PVC waterstops.

### Product Size

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Length/Strip:	3 ft.
Cross section (as extruded)	1 in. x 1 in.
Cross section (as installed)	5/8 in. x 1-1/2 in.

<b>Packaging:</b>	
Number of strips per carton	35

### Storage

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One year in unopened containers stored between 50° F (10° C) and 80° F (27° C) under dry, ventilated conditions, and out of direct sunlight.

Storing the material at a higher temperature may reduce its shelf life. Keep in an upright position and do not over stack.

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Covered by US patent 6,901,712; Canadian patent 2,413,550.

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