

Physical Property	Typical Value	Test Method
Appearance	Black strips	-
Ductility	5.0 min.	ASTM D113
Flash Point	350F min.	ASTM D92
Sag or Flow Resistance	No Sag	Fed. Spec SSS-210A 4.5.3
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	1.0% max.	ASTM D6

### Description

**Henry® Synko-Flex® Waterstop** is a specially formulated, non-swelling preformed joint sealant designed to create a durable, watertight bond with both fresh and cured concrete surfaces. This single-component, self-sealing adhesive compound is extruded in a square cross-section between two quick-release protective wrappers and bonds to cured concrete while fusing with fresh concrete during hydration to seal cold joints in footings, walls, and slabs. Because it does not rely on swelling, it maintains performance even if exposed to rain or wet conditions before joint completion. **Synko-Flex** is used in a wide range of structures including basements, tunnels, parking garages, water and wastewater facilities, reservoirs, and precast structures, and can also seal pipe penetrations through concrete walls or slabs.

### Usage

**Synko-Flex®** 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** may also be used to seal around concrete, steel, PVC, or HDPE pipe penetrations through concrete walls or floor slabs. **Synko-Flex** is also ideal for use as a joint sealant on precast structures such as box culverts, septic tanks and utility vaults.

### Features

- Bonds to cured concrete surfaces and fused with green concrete during the hydration and curing process.
- Eliminates split forming, wiring to rebar, heat welding of splices
- Unaffected by rain or wet conditions during installation, never a risk of fracturing concrete
- Excellent chemical resistance
- Can be used in conjunction with Henry Waterproofing Systems

### Surface Preparation

Joint surfaces should be clean and dry before priming and just prior to placing the **Synko-Flex** strips. 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.

### Application

**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. Minimum 2 inches of concrete coverage is recommended.

**Standard Method:** 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.

Peel the protective release paper from one side of the **Synko-Flex** strip. Place the strip onto the primed surface pressing firmly

## Synko-Flex® Waterstop

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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 1/2 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.

### 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.

### Packaging

Number of strips per carton ..... 35

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