

Synko-Flex® Preformed Plastic Adhesive Waterstop

Physical Properties

<p>AppearanceBlack strips</p> <p>Hydrocarbon Content50% to 70% (ASTM D 4)</p> <p>Volatile Matter2.0% max. (ASTM D 6)</p> <p>Specific Gravity1.20 to 1.35 (ASTM D 71)</p> <p>Ductility5.0 min. (ASTM D 113)</p> <p>Softening Point320° F (ASTM D 36)</p> <p>Penetration (150 GTL)50 to 120 (ASTM D 217)</p> <p>Flash Point600° F min. (ASTM D 92)</p> <p>Flow ResistanceNo flow (Fed Spec SSS-210) (In vertical position 5 days at 135° F)</p> <p>Resistance to Hydrostatic Head68 feet of water (On non-moving joints)</p>	<p>Sizes</p> <p>Length/strip3 ft.</p> <p>Cross section (as extruded)1 in. x 1 in.</p> <p>Cross section (as installed).....5/8 in. x 1-1/2 in.</p> <p>Packaging</p> <p>No. strips/carton.....35 strips</p> <p>Lineal ft./carton105 ft.</p> <p>Coverage</p> <p>Net coverage with approx. 1 in. splice per strip100 ft.</p> <p>Required primer1 gal. per 200 lineal ft.</p>
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Approvals & Certifications

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

Description

Synko-Flex® Preformed Plastic Adhesive Waterstop is a specially formulated non-swelling preformed joint sealant that provides a lasting, watertight bond to both fresh and cured concrete surfaces. **Synko-Flex®** 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.

Uses

Synko-Flex® is designed to provided 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, wastewater 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.

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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.

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 **Synko-Flex®**. Two inches of concrete coverage is recommended.

Application

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 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.

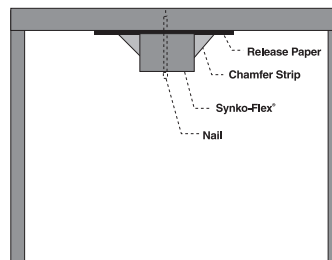
Alternate Application Method

Synko-Flex® may also be installed directly in the fresh concrete.

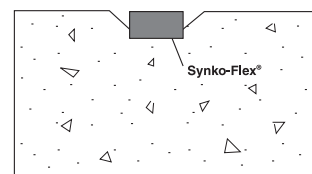
Horizontal Applications: Peel the protective release paper from one side of the **Synko-Flex®** strip. While concrete is still wet, carefully press the **Synko-Flex®** strips into the fresh concrete, leaving approximately 1/2 inch exposed above the concrete surface. When concrete cures, remove remaining 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 as shown. Finishing nails will pull through the **Synko-Flex®** strips when end form is removed.

Alternate Installation Method
Before Pouring



Alternate Installation Method
After Pouring



Limitations

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

Precautions

Synko-Flex® Primer is flammable. Use caution around open flame.

Limited Warranty

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 and meet the physical and chemical requirements of Federal Specification SSS-210. 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 thereto, 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.