

Swellstop

Water Swellable Sealant

Description	Swellstop is a butyl polymer based sealant tape.
Where to Use	<ul style="list-style-type: none"> ■ Cold joint in foundation slabs or below grade walls ■ Precast concrete wall panel systems ■ Septic tanks ■ Sanitary and storm sewer manholes ■ Utility vaults, portable water tanks and box culverts ■ Pipes (round, oval, flat-base elliptical and arch types) ■ Wet wells <p>Please note that Swellstop is not an expansion joint material and should not be used as one.</p> <p>Swellstop requires no special handling equipment. It is clean to the touch and does not contain any material that can discolor or irritate the skin.</p>
Benefits	<ul style="list-style-type: none"> ■ Swellstop is a water-swellable, waterproofing sealant designed for use on many types of poured-in-place and below grade precast concrete applications. ■ On exposure to water it will begin to swell to seal any exposed gaps in concrete joints. Swellstop has excellent adhesion to clean, dry concrete. It is specifically intended for non-moving joints. It features all weather application and is engineered for use under most temperature conditions. ■ Swellstop stays flexible in cold weather without shrinking or hardening and does not require heating for application. In hot weather, Swellstop remains pliable and does not become spongy.
Typical Data Packaging	<p>Swellstop: 3/4" X 1" X 16'-8" roll (6 rolls or 100' per carton)</p> <p>Swellstop II: 3/8" x 3/4" x 25' roll (6 rolls or 150' per carton)</p>

Property	Test Method	Typical Values
Color	ASTM D1729	Black
Odor		None
Application Temperature		5°F to 125°F
Service Temperature		-40°F to 215°F
Cone Penetration, 300 g	ASTM D217	55-60 dmm
% Solids	ASTM C771	99% after 4 hours @ 212°F
Specific Gravity	ASTM D297	1.60 ± 0.05 g/cm ³
Weight per Gallon		13.3 pounds per gallon
Water Swell Capability	TP-001	After 3 days water immersion = > 25% by weight After 2 months water immersion = 140-170% by weight
Hydrostatic Pressure Test*		Maintains a minimum head pressure of 100 psi
Flow Resistance		No flow from a 3/4 inch overhead joint exposed to 135°F for 7 days
Flash Point	ASTM D92	610°F
Shelf Life		Indefinite when stored in dry warehouse conditions
*Note: Hydrostatic pressure test indicates the pressure necessary to penetrate directly through the sealant. It does not reflect application pressure to seal a joint.		
Results may differ based upon statistical variations depending upon equipment, temperature, application methods, test methods, and actual site conditions.		



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Waterproofing

How to Use Surface Prep

Joint surfaces must be clean and dry. For best results, apply adhesive primer to the joint surface (especially vertical joints) before applying Swellstop. The primer creates a tacky surface to ensure a firm bond to the concrete.

Swellstop is installed after the form is stripped from the first pour and before the second pour is placed. A keyway may be formed in the first pour with a slight draft angle at the joint face to accept the Swellstop, this will reduce the risk of the profile shifting during concrete placement. This may increase the chance of Swellstop being exposed to pooling water. However, Swellstop does not need to be located in a keyway.

The concrete surface should be smooth, dry, and cured for a minimum of 24 hours prior to Swellstop application.

Brush apply a 2" wide continuous coat of Swellstop Primer Adhesive along the joint and allow it to dry for two hours before applying the Swellstop waterstop. The primer adhesive provides a dust free, tacky surface to improve the adhesion of Swellstop to the concrete.

Application

- Swellstop Primer Adhesive and Swellstop waterstop should be applied on the same day.
- Press Swellstop waterstop firmly and continuously in place over and along the primed area. Swellstop can also be mechanically fastened to concrete using concrete nails in vertical or overhead applications. This should be done in addition to using the primer adhesive. Suggested fastener spacing is approximately 12" on center.
- Swellstop adheres to the butt end of the previous concrete pour and should be positioned a minimum of 2-inches from the exterior joint surface. Concrete cut nails and/or adhesive must be used to secure Swellstop in place to prevent displacement during the pour.
- Swellstop may also be installed in a cast-in-place recess at the exterior side of the joint. Precautions must be taken to protect the product from hydration prior to backfilling in this situation. Backfill must be compacted to 85% modified proctor minimum adjacent to the joint. The recess at the exterior of the joint should match the dimension of the Swellstop.
- Swellstop waterstop should be spliced by butting the ends together with no separation or air pockets. Do not overlap the ends of the waterstop. It is not necessary to miter cut the Swellstop at these intersections. The pliable nature of Swellstop permits it to be bent around corners eliminating a 90° splice if desired. Place in maximum practical lengths to minimize splicing.
- Protect waterstop from moisture, dirt, oil, and sunlight during the progress of the work. Do not remove separation paper from Swellstop waterstop until just prior to the second concrete pour. Inspect Swellstop for premature swell, discontinuity, and debris contamination immediately prior to the second concrete pour. If swelling and/or damage has occurred, remove and replace the material with new.
- Place and thoroughly vibrate concrete, taking care not to disturb or displace the waterstop. Do not allow vibrator to contact the Swellstop.

Limitations

Swellstop waterstop should be used in below grade, nonmoving joints only and is not appropriate for expansion joint applications.

Cracking and/or spalling of the concrete can be caused by the expansion pressure of Swellstop waterstop. A minimum 2" of concrete coverage is recommended. Increase this coverage if using lightweight or low strength concrete (< 3,500 PSI compressive strength).

Swellstop waterstop requires the presence of moisture to initiate and maintain expansion. The expansion process begins immediately when Swellstop contacts water.

Shelf Life

2 years when stored in a cool, dark, and dry environment.

Storage

Store in a cool, dark, and dry environment.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY

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Sika Greenstreak Sales Office
3400 Tree Court Industrial Blvd.
St. Louis, MO 63122
Tel: (636) 225-9400
Fax: (636) 225-2049
usa.sika.com

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: (201) 933-8800
Fax: (201) 933-6225
usa.sika.com

Sika Canada Inc.
601, Delmar Avenue
Pointe-Claire, QC H9R 4A9
Phone: (514) 697-2610
Fax: (514) 697-3087
can.sika.com



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