

PRODUCT DATA SHEET

Swellstop

Water Swellable Sealant

DESCRIPTION

Swellstop is a butyl polymer based sealant tape.

USES

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

Please note that Swellstop is not an expansion joint material and should not be used as one. 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.

FEATURES

- Swellstop is a water-swellable, waterproofing sealant designed for use on many types of pour-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.

PRODUCT INFORMATION

| Packaging | Type | Width | Thickness | Length of roll | Number of roll per box (Total length per box) |
|-------------------------|---|-------|-----------|----------------|--|
| | Swellstop | 25 mm | 19 mm | 5.0m | 6 (30.0m) |
| | Swellstop II | 19 mm | 9 mm | 7.6m | 6 (45.6m) |
| Appearance and colour | Black | | | | (ASTM D-1729) |
| | Odor: none | | | | |
| Shelf life | 2 years when stored in a cool, dark, and dry environment. | | | | |
| Storage conditions | Store in a cool, dark, and dry environment. | | | | |
| Density | Specific Gravity: 1.60 + 0.05 g/cm ³ Weight per Litre: 1.60 kg/L | | | | (ASTM D-297) |
| Change of volume | ~100% at 48 hours; ~250 % at 28 days (less in salty water) | | | | |
| Ambient air temperature | -40°C to +100°C | | | | |

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BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

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 5cm 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 METHOD / TOOLS

- 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 30cm on center.
- Swellstop adheres to the butt end of the previous concrete pour and should be positioned a minimum of 5cm 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recom-

mendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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