



**PRODUCT DATA SHEET**

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CSC Master Format™ 03 15 13  
WATERSTOPS

# SikaSwell® A

## ACRYLIC-POLYMER-BASED RANGE OF SWELLABLE, JOINT SEALING PROFILES

<b>Description</b>	SikaSwell® A is a specially formulated range of high-performance, swellable, acrylic profiles for the waterstopping of all kinds of construction joints. When in contact with water, or certain solutions, the profiles expand to form a compression seal, blocking the passage of water and liquids.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>▪ Designed for construction joints in new, watertight concrete structures.</li> <li>▪ Excellent for sealing pipe penetrations through walls and floor slabs.</li> <li>▪ Excellent for sealing joints between precast elements.</li> <li>▪ Ideal for watertight construction joints between new and existing concrete.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Easy to apply.</li> <li>▪ Can be installed onto different substrates.</li> <li>▪ Highly economical and quick to install.</li> <li>▪ No hardening time required.</li> <li>▪ No welding required.</li> <li>▪ Adaptable to fit different detailing.</li> <li>▪ Range of types and dimensions available.</li> <li>▪ Swells in contact with water and liquids.</li> <li>▪ Can swell into cracks and gaps.</li> <li>▪ Resistant to water and various chemical substances.</li> <li>▪ Long-term reliability tested.</li> <li>▪ Independent assessment of SikaSwell® A profiles includes:                             <ul style="list-style-type: none"> <li>- Function application in construction joints: Wissbau® Consulting Engineers : 2002-094.</li> <li>- Testing of material and swelling properties: Material Testing Institute of Northern Rhein - Westfalia (MPA NRW).</li> <li>- Mechanical long time stability: FH Aachen - University of Applied Sciences.</li> <li>- Resistance to water pressure and durability (SikaSwell® A-2010): British Board of Agreement 13/4994.</li> </ul> </li> </ul>

<b>Technical Data</b>																										
<b>Packaging</b>	6 rolls per carton. (Consult the following table for dimensions.)																									
	<table border="1"> <thead> <tr> <th>Type</th> <th>Width</th> <th>Thickness</th> <th>Length of roll</th> <th>Total Length per carton</th> </tr> </thead> <tbody> <tr> <td>2005</td> <td>20 mm</td> <td>5 mm</td> <td>20 m</td> <td>120 m</td> </tr> <tr> <td>2010</td> <td>20 mm</td> <td>10 mm</td> <td>10 m</td> <td>60 m</td> </tr> <tr> <td>2015</td> <td>20 mm</td> <td>15 mm</td> <td>7 m</td> <td>42 m</td> </tr> <tr> <td>2520</td> <td>25 mm</td> <td>20 mm</td> <td>5 m</td> <td>30 m</td> </tr> </tbody> </table>	Type	Width	Thickness	Length of roll	Total Length per carton	2005	20 mm	5 mm	20 m	120 m	2010	20 mm	10 mm	10 m	60 m	2015	20 mm	15 mm	7 m	42 m	2520	25 mm	20 mm	5 m	30 m
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<b>Colour</b>	Red																									
<b>Shelf Life</b>	12 months in original, unopened packaging. Store at temperatures between 5 and 32 °C (41 and 89 °F). Condition product between 10 and 32 °C (50 and 89 °F) before using.																									
<b>Properties at 23 °C (73 °F) and 50 % R.H.</b>																										
<b>Shore A Hardness, ASTM D2240</b>	25																									
<b>Change of Volume</b>	100 % at 48 hours; 250 % at 28 days (less in salty water)																									
<b>Swelling Pressure</b>	160 m (525 ft) after 3 days stored in tap water																									
<b>Application Temperature</b>	10 to 32 °C (50 to 89 °F)																									
<b>Required Concrete cover</b>																										
SikaSwell® A-2005	80 mm (3.15 in)																									
SikaSwell® A-2010	80 mm (3.15 in)																									
SikaSwell® A-2015/2520	100 mm (4 in)																									
<b>Resistance to Water Pressure (SikaSwell® A-2010)</b>	2.5 bar (5221 psf) max. hydrostatic																									
<b>VOC Content</b>	Not Applicable																									
<b>Chemical Resistance</b>	Contact Sika Canada																									
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>																										

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**HOW TO USE****Surface Preparation**

The surface to which the SikaSwell® A profiles are to be installed must be sound, clean, dry, free from all surface contaminants. All loose particles, release agents, laitance, paint, rust and other poorly adhering materials must be removed by suitable hand or mechanical preparation. Surfaces which are excessively rough tend to leak eventually. It is recommended to smooth rough areas with fresh concrete mortar.

**Application**

Clean the surface to which SikaSwell® A profiles are to be applied. All loose particles can negatively affect adhesion to the substrate

Cut the SikaSwell® A profile to the required length, producing cleanly cut and sound ends. Apply SikaBond® Construction Adhesive or SikaSwell® S-2 to the prepared surface (see Product Data Sheets for specific material details).

The SikaSwell® A profiles need a concrete cover of at least 80 mm (3.15 in). Press the SikaSwell® A profile into the applied SikaBond® Construction Adhesive or SikaSwell® S-2 while the gun-applied materials are uncured and offer adhesive properties. It is important to fully bond the SikaSwell® A profile to the substrate.

Once installed, protect the SikaSwell® A profile against water (e.g. rain) until the concrete is placed.

It is important that a full and continuous contact between the SikaSwell® A profile and the substrate is achieved.

During concreting, compact the concrete well around SikaSwell® A profile. This will ensure that a dense concrete, without any honeycombs or voids, is produced.

An Installation Guide, including sequential diagrams and accompanying instructions, is available separately.

**Clean Up**

Uncured adhesive material can be removed from equipment and tools using Sika® Urethane Thinner and Cleaner. Cured adhesive material can only be removed manually or mechanically. For removal of uncured adhesive material from hands and sensitive surfaces, use Sika® Hand Cleaner towels.

**Limitations**

- SikaSwell® A profiles are not suitable for use in movement joints.
- The profiles expand in contact with water. This does not occur immediately, but gradually, after several hours. It is advisable not to leave the profiles for any length of time in the open air or exposed to rain water (max. 24 hours providing water can drain away).
- If the water level suddenly increases, the water tightness of joints will only be achieved when SikaSwell® A profiles have swollen.
- In a totally dry state, SikaSwell® A profiles shrink to their original dimensions, but expand again in contact with water
- SikaSwell® A profiles should be kept in its moisture proof wrap prior to use.
- Do not use SikaSwell® A profiles for sealing against water pressures higher than 20 m (2 bar) because of the limited sealing distance. Contact Sika Canada for guidance.
- If SikaSwell® A profiles are to be fixed around small diameter pipes, use additional mechanical fastening with tie wire or a sleeve.

**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

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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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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