

SikaSwell®- A Profiles

ADVANCED
TECHNOLOGY,
SWELLABLE
ACRYLIC
PROFILES FOR
WATER-STOPPING



SikaSwell®-A profiles are a range of high performance swellable waterstops for construction joints and pipe or steelwork penetrations in concrete

SikaSwell®-A is a line of preformed profiles which, when in contact with water, liquids, or certain chemicals, swell and expand to form a compression seal. They are particularly suitable for non-moving construction joints in new, watertight structures, such as basements and tanks, and for sealing around pipes and other services when they penetrate through building components. Used in conjunction with SikaBond® adhesive technology or SikaSwell® gun-applied hydrophilics, they exhibit high bond characteristics and provide up to 250% change in volume. The profiles are therefore ideal where the passage of water or solutions has to be blocked in order to prevent leakage, contamination or damage.

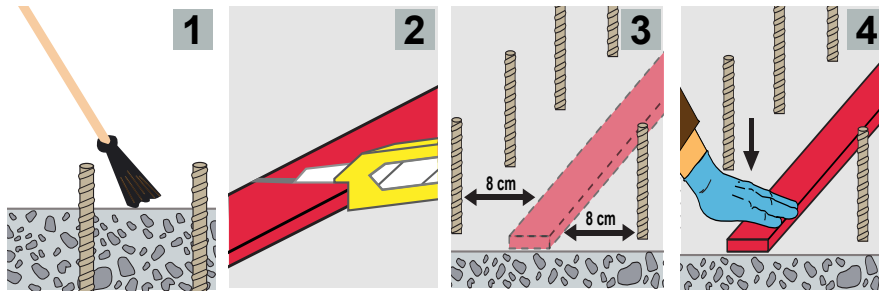
- Easy, quick and economical to install.
- Reduce labour costs by eliminating keyways and other ties.
- Compatible with different substrates.
- No welding required.
- No hardening time required
- Adaptable to fit different detailing.
- Range of types and dimensions available.
- Swell in contact with water and liquids.
- Can occupy cracks and gaps.
- Resistant to water and various chemicals.
- Long-term reliability independently assessed.

SikaSwell®-A profiles

Reliable and durable water-stops

SikaSwell® technology represents Sika's long and renowned presence in the field of waterproofing. Celebrating its 100th anniversary, Sika was first founded on the basis of providing waterproofing to civil engineering structures, including tunnels, operating in very demanding environments. Since that time, Sika has been at the forefront of developing intelligent solutions for either preventing the ingress of water and liquids, or retaining them. SikaSwell®-A profiles have been independently assessed and proven in performance and durability.

INSTALLATION GUIDE



- 1** Clean the surface to which the SikaSwell®-A profile is to be applied. Formwork release agents, laitance, rust and other foreign or loose material 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 a mortar (consult Sika Canada Technical Services for recommendations). Surfaces to which the SikaSwell®-A profile is to be installed must be sound, clean, dry and free from contaminants.
- 2** Cut the SikaSwell®-A profile to the required length, producing clean and sound ends. Apply SikaBond® Construction Adhesive or SikaSwell® S-2 to the prepared surface (see Product Data Sheets for specific material details) to act as an adhesive.
- 3** SikaSwell®-A profiles require concrete cover of at least 8 cm (3.15 in).
- 4** Press the SikaSwell®-A profile into the SikaBond® Construction Adhesive or SikaSwell® S-2 adhesive while they are uncured and offer bonding properties. It is important to fully adhere the SikaSwell®-A profile to the substrate.

Please refer to the current Product Data Sheet for further information. An Installation Guide, detailing all application and precautionary measures is available.

TECHNICAL DATA

Recommended Application Temperature

- 10 to 32°C (50 to 89°F)

Required Concrete Cover

- 80 to 100 mm (3.15 to 4 in) profile dependent

Change of Volume

- 100% at 48 hours; 250% at 28 days (less in salty water)

Swelling Pressure

- 160 m (525 ft) after 3 days stored in tap water

VOC Content (EPA Method 24)

- ≤ 0 g/L

INDEPENDENT ASSESSMENT

- Functional application in construction joints: *Wissbau® Consulting Engineers: 2002-094*
- Testing of material and swelling properties: *Material Testing Institute of Northern Rhein - Westfalia (MPA NRW).*
- Mechanical long time stability: *FH Aachen - University of Applied Sciences.*

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 shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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An ISO 9001 certified company
Pointe-Claire : ISO 14001 certified EMS

TYPICAL APPLICATIONS

WATERPROOFING OF CONCRETE CONSTRUCTION JOINTS

- Precast Concrete ■
- Cast in Place Concrete ■
- Pipe Penetrations in Concrete ■
- Steel Work Penetrations in Concrete ■

For advice on joint sealing and moisture protection, please contact Sika Canada Technical Services.

