

PRODUCT DATA SHEET

SikaSwell® A

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

PRODUCT DESCRIPTION

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.

WHERE TO USE

- Designed for construction joints in new, watertight concrete structures
- Excellent for sealing pipe penetrations through walls and floor slabs
- Excellent for sealing joints between precast elements
- Ideal for watertight construction joints between new and existing concrete

CHARACTERISTICS / ADVANTAGES

- Easy to apply
- Can be installed onto different substrates
- Highly economical and quick to install
- No hardening time required
- No welding required
- Adaptable to fit different detailing
- Range of types and dimensions available
- Swells in contact with water and liquids
- Can swell into cracks and gaps
- Resistant to water and various chemical substances
- Long-term reliability tested
- Independent assessment of SikaSwell® A profiles includes:
 - Function 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.
 - Resistance to water pressure and durability (SikaSwell® A-2010): British Board of Agreement 13/4994.

PRODUCT INFORMATION

Packaging

6 rolls per carton. (Consult the following table for dimensions.)

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

Appearance / Colour	Red
Shelf Life	12 months in original, unopened packaging.
Storage Conditions	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.

TECHNICAL INFORMATION

Shore A Hardness	25	(ASTM D2240)
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	

SYSTEMS

APPLICATION INFORMATION

Ambient Air Temperature	10 to 32 °C (50 to 89 °F)
Substrate Temperature	10 to 32 °C (50 to 89 °F)

BASIS OF PRODUCT DATA

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. Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

ENVIRONMENT, HEALTH & 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.

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 25 m (2.5 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.
- Contact Sika Canada for guidance in situations requiring resistance against specific chemical substances.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The surface to which the SikaSwell® A profiles are to be installed must be sound, clean, dry, free from all surface contaminants.

SUBSTRATE PREPARATION

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 METHOD / TOOLS

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 2005/2010 profiles need a concrete cover of at least 80 mm (3.15 in). The SikaSwell® A 2015/2520 profiles need a concrete cover of at least 100 mm (4 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.

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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.

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 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

Product Data Sheet

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