

PRODUCT DATA SHEET

SikaSwell® A

Acrylic swellable joint sealing profile

PRODUCT DESCRIPTION

SikaSwell® A is an acrylic sealing profile which swells in contact with water to seal all types of joints and penetrations in concrete. It has a rectangular profile and is available in several sizes.

USES

To seal:

- Construction joints
- Pipe and steel work penetrations through walls and floor slabs
- Construction joints in cable ducts, etc.
- Around all types of penetrations through concrete

CHARACTERISTICS / ADVANTAGES

- Easy to apply
- Can be applied on different substrates
- Highly economical
- Swells in contact with water
- Can swell into cracks and gaps
- Long-term reliability tested
- Resistant against water and various chemical substances
- No hardening time required
- No welding required
- Adaptable to fit many different detailing tasks
- Different types and dimensions available

PRODUCT INFORMATION

Chemical Base	Acrylic polymer	
Packaging	Rolls packed in cardboard boxes SikaSwell® A 2010	Roll of 10 m (32.8ft) Box with 1 or 6 rolls
Appearance / Color	Rectangular red profiles. Swelled and unswelled profiles shown in image below.	



Shelf Life	36 months from the date of production		
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C (+41°F) and +35 °C (+95°F). Always refer to packaging.		
Dimensions	Type SikaSwell® A 2010	Width 20 mm (0.79 in.)	Height 10 mm (0.39 in.)

TECHNICAL INFORMATION

Swelling	Time	Demineralised water	5 % saline solution
	3 days	~100 %	~60 %
	7 days	~150 %	~100 %
	14 days	~200 %	~120 %
	21 days	~220 %	~140 %

Swelling Pressure ≤ 16 bars after 3 days stored in tap water

Service Temperature 0 °C (+32°F) min. / +50 °C (+122°F) max.

SYSTEM INFORMATION

System Structure The following system products must be used:

- SikaSwell® A
- SikaSwell® S-2 Sealant

APPLICATION INFORMATION

Substrate Moisture Content Dry or matt damp. Do not apply in construction joints when standing water is existing.

Ambient Air Temperature +5 °C (+41°F) min.
For installation below +5 °C (+41°F) ambient temperature, special measures are required in accordance with relevant national regulations and Sika guidelines

Substrate Temperature +5 °C (+41°F) min.
For installation below +5 °C (+41°F) substrate temperature, special measures are required in accordance with relevant national regulations and Sika

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be sound, clean, dry or matt damp, free from all surface contaminants

SUBSTRATE PREPARATION

Existing Concrete

All loose particles, release agents, laitance, paint, rust and other poorly adhering materials must be removed by suitable hand or mechanical preparation.

Freshly cast concrete

During concreting, compact well around SikaSwell® A profiles to provide a dense concrete without any honeycombing or voids.

Surfaces which are excessively rough can be susceptible to leaking. It is recommend to smoothen the freshly cast concrete with a batten where the sealing profile is to be placed.

APPLICATION METHOD / TOOLS

SikaSwell® S-2 Sealant application

Apply SikaSwell® S-2 in a narrow bed (size of triangular section ~5 mm) onto the prepared substrate. Extrude sufficient quantity to level the roughness of the substrate. Refer to the SikaSwell® S-2 Product Data Sheet

SikaSwell® A application

Cut the SikaSwell® A-Profile to the required length. Press the SikaSwell® A-Profile into the freshly applied SikaSwell S-2 until a small quantity is extruded from both sides of the profile to achieve a full surface bond. The profiles must be placed within max. 30 minutes. Connections and corners must be butt jointed and fixed. Allow SikaSwell® S-2 to harden for 2–3 hours before placing concrete. Protect the SikaSwell® A profiles against water (e.g. rain) until the concrete is placed.

LIMITATIONS

- Ensure a full and continuous contact between the SikaSwell® A profiles and the substrate is achieved.
- The SikaSwell® A profiles require a reinforced concrete / concrete cover of at least 8 cm (3.2 in.).
- SikaSwell® A profiles expand in contact with water. This does not occur immediately, but slowly after several hours. It is advisable not to leave SikaSwell® A profiles in the open air or exposed to rain water (max. 24 hours as long as water can drain away)
- Do not use profiles for movement joints.
- If the water level suddenly increases the watertightness of joints will only be achieved after SikaSwell® A profiles have swollen.
- In a totally dry state, SikaSwell® A profiles shrink to

their original dimensions then expands again in contact with water.

- Above 2.5 bar water pressure it is recommended to install an additional back-up system such as SikaFuko®-System.
- If profiles are to be fixed around small diameter pipes use additional mechanical fixing with tie wire or a sleeve.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety

Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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Product Data Sheet

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