

# PRODUCT DATA SHEET

## SikaSwell® A

### SWELLABLE JOINT SEALING PROFILES

#### DESCRIPTION

Acrylic sealing profiles which swell in contact with water.

#### USES

To seal:

- Construction joints
- Pipe and steel work penetrations through walls and floor slabs
- Construction joints in precast concrete
- 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

#### APPROVALS / CERTIFICATES

- MPA NRW: P-22-MPANRW-7678 - German approval for construction joints (18/11/2014)
- WISSBAU: 2012-206, Function test to check sealing capacity, (10/2012)
- FH Aachen: Mechanical long time stability (08/12/2012)
- BBA British Board of Agrément, Approval Inspection Certificate – Technical approval for Construction Agrément Certificate 13/4994, 02/05/2013
- Vattenfall Test Report, BBA Approval, Watertightness testing of hydrophilic waterstop, 23/05/2012

## PRODUCT INFORMATION

<b>Composition</b>	Acrylic polymer	
<b>Packaging</b>	Rolls packed in cardboard boxes	
	SikaSwell® A 2005	Roll of 20 m Box with 1 or 6 rolls
	SikaSwell® A 2010	Roll of 10 m Box with 1 or 6 rolls
	SikaSwell® A 2015	Roll of 7 m Box with 1 or 8 rolls
SikaSwell® A 2025	Roll of 5 m Box with 6 rolls	

**Appearance / Colour** red, water swellable, acrylic profiles



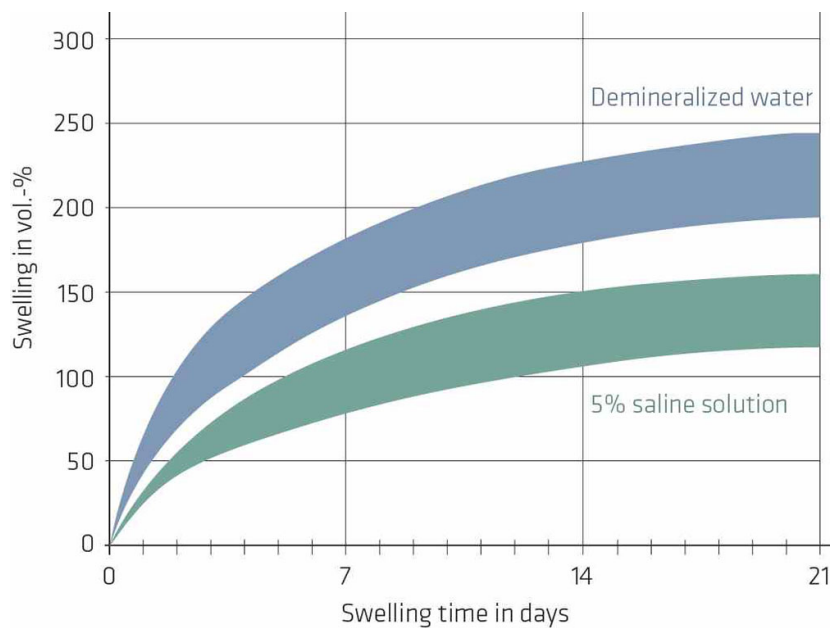
**Shelf life** 36 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.

**Storage conditions** Dry storage at temperatures from +5 °C up to +35 °C. Protect from direct sunlight, UV-light and humidity.

<b>Dimensions</b>	<b>Type</b>	<b>Width</b>	<b>Height</b>
	SikaSwell® A 2005	20 mm	5 mm
	SikaSwell® A 2010	20 mm	10 mm
	SikaSwell® A 2015	20 mm	15 mm
	SikaSwell® A 2025	20 mm	25 mm

## TECHNICAL INFORMATION

### Change of Volume



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 min. / +50 °C max.

## APPLICATION INFORMATION

**Substrate Moisture Content** Dry or damp mat.  
Application in construction joints with standing water is not possible.

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

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

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The substrate must be sound, clean, dry or mat damp, 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 later on. It is recommend to smoothen the freshly placed concrete with a batten where the sealing profile is to be placed.

### APPLICATION METHOD / TOOLS

- Cut the SikaSwell® A-Profile to the required length
- Apply the SikaSwell® S-2 to the clean surface
- Press the SikaSwell® A-Profile into the freshly applied adhesive SikaSwell S-2
- It is important to achieve a full bonding to the surface
- The SikaSwell® A profiles require a reinforced concrete / concrete cover of at least 8 cm
- Protect the SikaSwell® A profiles against water (e.g. rain) until the concrete is placed
- Connections and corners must be butt jointed and fixed.

## General

- It is important a full and continuous contact between the SikaSwell® A profiles and the substrate is achieved.
- During concreting, compact well around SikaSwell® A profiles to provide a dense concrete without any honeycombs or voids.
- SikaSwell® S-2 must be extruded in sufficient quantity to level the roughness of the substrate.
- Apply SikaSwell® S-2 in a narrow bed (size of triangular section ~5 mm) to the substrate. The profiles must be placed within max. 30 minutes onto and pressed well into the still fresh SikaSwell® S-2 sealant until small quantities of SikaSwell® S-2 ooze out from both sides of the profile.
- Allow SikaSwell® S-2 to harden for 2–3 hours before placing concrete.
- Consult the product data sheet of SikaSwell® S-2.

## IMPORTANT CONSIDERATIONS

- SikaSwell® A profiles expand in contact with water. This does not occur immediately, but slowly after several hours. Nevertheless 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 SikaSwell® A 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, but expand 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 SikaSwell® A profiles are to be fixed around small diameter pipes use additional mechanical fixing with tie wire or a sleeve

## BASIS OF PRODUCT DATA

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## ECOLOGY, 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 this 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 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 recommendations, 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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