

PRODUCT DATA SHEET

SikaSwell® A

Hydrophilic swellable joint sealing profiles

DESCRIPTION

SikaSwell® A is a rectangular acrylic sealing profile. It swells in contact with water to seal all types of construction joints and penetrations in concrete structures.

USES

Joint sealing:

- Construction joints
- Pipe and steel work penetrations through walls and floor slabs
- Around all types of penetrations and connection joints
- Construction joints in cable ducts

FEATURES

- Highly economical joint sealing solution
- Unique properties fill small cracks and voids
- Versatile solution for joints and details

- Permanently water resistant (wet & dry cycles)
- Resistant to various chemical substances
- Easy and fast to apply
- Can be applied on different substrates
- BBA system approvals with SikaSwell S-2
- Available in different sizes

SUSTAINABILITY

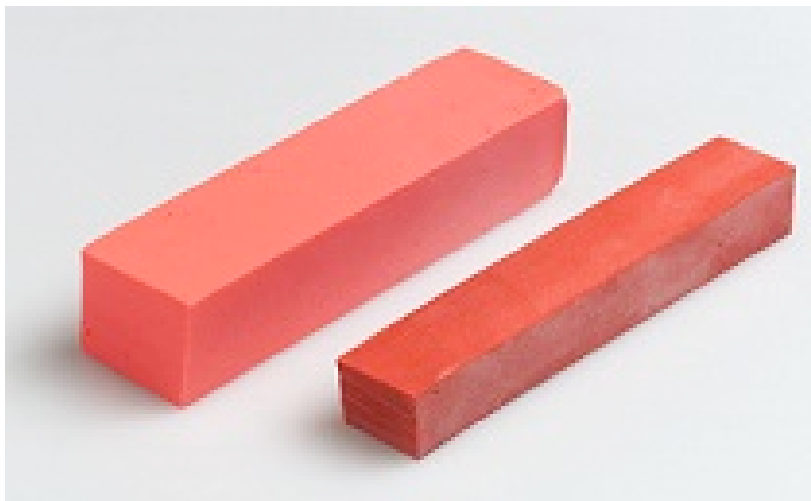
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Material ingredients (option 2)

CERTIFICATES AND TEST REPORTS

- Resistance to water pressure and durability SikaSwell® A2010, SikaSwell® S-2, BBA, Certificate No.13/4994
- Functional watertightness test, SikaSwell® A, WISS-BAU, Test report No. 2012-206

PRODUCT INFORMATION

Composition	Acrylic polymer
Packaging	Single rolls packed in vacuum foil. Multiple single rolls packed in cardboard boxes. Refer to current price list for packaging variations.
Appearance and colour	Profile after swelling (left) and before swelling (right)



Shelf life	36 months from the date of production			
Storage conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.			
Density	1.50 kg/lit (at +23 °C)			(EN ISO 2811-1)
Dimensions	Type	Width	Height	Length
	SikaSwell® A 2005	20 mm	5 mm	20 m
	SikaSwell® A 2010	20 mm	10 mm	10 m
	SikaSwell® A 2015	20 mm	15 mm	7 m
	SikaSwell® A 2025	20 mm	25 mm	5 m

TECHNICAL INFORMATION

Shore A hardness	(10 ± 5)		(DIN 53505)
Service temperature	Minimum	-20 °C	
	Maximum	+50 °C	
Change of volume	Time	Demineralised water	(EN 14498)
	1 day	~50 %	
	7 days	~130 %	
	30 days	~150 %	
	Note: Swelling properties in saline water will be reduced and delayed. Use SikaSwell® A Maritim version. Note: In a totally dry state, the Product shrinks to its original dimensions. The product then expands again upon further contact with water.		
Swelling pressure	The pressure developed by the material depends on the stiffness of the surrounding concrete structure, which is influenced by the concrete quality, voids, gaps and other weaknesses. In an ideal concrete structure, the material can develop a swelling pressure up to >10 bar.		

APPLICATION INFORMATION

Ambient air temperature	Minimum	+5 °C
	Maximum	+35 °C
Substrate temperature	Minimum	+5 °C
	Maximum	+35 °C
Substrate moisture content	Dry or matt damp. Do not apply in construction joints with existing standing water.	

SYSTEM INFORMATION

System structure	The following system products must be used:	
	Adhesive	SikaSwell® S-2
	Swelling profile	SikaSwell® A

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.

IMPORTANT CONSIDERATIONS

- Do not use SikaSwell® profiles for movement joints
- In a completely dry state, SikaSwell® A profiles shrink to their original dimensions and swell again on contact with water
- SikaSwell® A profiles expand when in contact with water. This does not take place immediately, but slowly and gradually after a few hours. It is recommended to do not leave SikaSwell® A profiles exposed to the atmosphere or rainwater (maximum 24 hours and provided that water can be drained)
- The SikaSwell® A is recommended for sealing against water pressures up to 2 bar. For pressures higher than 2 bar, it is recommended to install additional safety system, such as SikaFuko® systems or contact Sika Technical Services for further information
- If the SikaSwell® A profile is to be fixed around small diameter pipes, use additional mechanical fixing with tie wire or a sleeve

ECOLOGY, HEALTH AND SAFETY

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).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be sound, clean, dry or matt damp, free from all surface contaminants that could impair the adhesion.

SUBSTRATE PREPARATION

EXISTING CONCRETE

Rough surfaces are susceptible to leaking. If the surface roughness cannot be levelled with SikaSwell® S-2, the roughness needs to be removed by an appropriate Sika levelling mortar or mechanical treatment before the SikaSwell® S-2 and SikaSwell profile is applied.

FRESHLY CAST CONCRETE

Freshly cast concrete can be smoothed with a batten where SikaSwell® S-2 is to be placed.

APPLICATION

Concrete cover

Insufficient concrete cover, low density concrete or voids will prevent the SikaSwell® profile from developing its waterproofing function.

Application of the adhesive SikaSwell® S-2

Apply SikaSwell® S-2 adhesive in a narrow bed (size of triangular section ~12 mm tall and ~12 mm wide) onto the prepared substrate. Extrude enough material to level the roughness of the substrate.

SEALANT WITH A SikaSwell® A PROFILE

1. Place the SikaSwell® A profile in the centre of the concrete structure
2. In reinforced concrete, maintain a minimum cover of 8 cm on both sides
3. In unreinforced concrete, maintain a minimum cover of 15 cm on both sides
4. Press the SikaSwell® A profile firmly into the fresh applied SikaSwell® S-2. Place the SikaSwell® A profile within a maximum of 30 minutes (+23 °C / 50 % r.h.)
5. Ensure full and continuous contact between the SikaSwell® S-2 and both the SikaSwell® A profile and the substrate is achieved
6. Allow SikaSwell® S-2 to harden minimum 12 hours

before placing concrete. For pouring height >50 cm, SikaSwell® S-2 must harden for at least 24 hours before placing concrete

7. Protect the SikaSwell® S-2 and the SikaSwell® A profile against water (for example, rain) until the concrete is placed
8. During placement, compact the fresh concrete well around the SikaSwell® A profile to achieve dense concrete without any honeycombing or voids

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Colma Cleaner. Hardened material can only be removed mechanically.

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.

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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Product Data Sheet

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