Product Data Sheet Edition 11/03/2014 Identification no: 02 07 03 06 001 0 000002 SikaSwell® S-2

SikaSwell[®] S-2

Swellable adhesive/sealant

Product Description	One part polyurethane sealant which swells in contact with water.
Uses	To seal waterproof-structures and fix SikaSwell [®] - Profiles or Sika [®] Injectoflex.
	 Sealing: Construction joints Pipe and steel work penetrations through walls and floor slabs Around all types of penetrations and construction joints Construction joints in cable ducts, etc.
	Fixation: ■ SikaSwell [®] - Profiles
Characteristics / Advantages	 Easy to apply Good adhesion to various substrates Optimised expansion rate, therefore no damage to fresh concrete during curing Highly economical Swells in contact with water Permanently water resistant Adaptable to fit many different detail tasks

Product Data

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Form		
Colour	Oxide red	
Packaging	600 ml unipacs (20 unipacs/box, 48 boxes/pallet)	
Storage		
Storage Conditions / Shelf-Life	9 months from date of production if stored in unopened, undamaged original packaging in dry conditions at temperatures between +5°C and +25°C.	
Technical Data		
Chemical Base	1-part polyurethane, moisture curing	
Density	1.33 kg/l (+ 23°C)	
Skinning Time	2 hours (+23°C / 50% r.h.)	



Curing Rate		√ 2.0 mm (+23°C / 50% r √ 10.0 mm (+23°C / 50%			
Sag Flow	< 2 mm				
Change of Volume	1 day in tap w	vater: < 25 %			
	7 days in tap	water: > 100 %			
	Swelling propertie	s in salty water will be re	educed and delayed.		
Mechanical / Physical Properties					
Shore A Hardness	Swollen (7 days in tap water): > 10 Non-swollen (7 days: +23°C / 50% r.h.): 40-60				
System Information					
Application Details					
Substrate Quality	The substrate must be sound, clean, dry max. mat moist, free from all surface contaminants.				
Substrate Preparation		, release agents, laitance removed by suitable ha			
Application Conditions / Limitations					
Substrate Temperature	+5°C min. / +35°C max.				
Ambient Temperature	+5°C min. / +35°C max.				
Substrate Humidity	The substrate must be dry, max. mat moist.				
Application Instructions					
Application Method / Tools	<i>For the fixation of SikaSwell[®]- Profiles:</i> Apply SikaSwell [®] S-2 (through triangular nozzle of approx. 5-10 mm sections) to prepared substrate. In case of uneven substrates the extruded triangular section of SikaSwell [®] S-2 may need to be adjusted accordingly. SikaSwell [®] - Profiles must be pressed well into the fresh SikaSwell [®] S-2. Allow SikaSwell [®] S-2 to harden for 2-3 hours before placing concrete. Please consult the product data sheet of the mentioned products. <i>As buried sealant for construction joint:</i>				
	Use a triangular nozzle or cut the nozzle to obtain a regular triangular extrusion section and apply SikaSwell [®] S-2 according to the following table:				
	Structure thickness	Size of triangular section	*Theoretical yield of 600 ml unipacs	*Theoretical yield of 300 ml cartridges	
	300 mm	15 mm	6.2 m	3.1 m	
	300 - 500 mm	20 mm	3.6 m	1.8 m	
		n be lower than the theoreti ss, size of aggregates, etc.)		ob-site conditions	
	Place SikaSwell [®] S-2 in the centre of the concrete section.				
	150 mm (non rein	sealant on both sides m forced concrete). For po urs. If the pouring height t 2 days.	uring heights < 500 m	m allow sealant to ell [®] S-2 must	

Cleaning of Tools	Clean application tools immediately after use with Sika Thinners C. Hardened / cured material can only be removed mechanically.	
Notes on Application / Limitations	SikaSwell [®] S-2 expands in contact with water. This does not happen immediately, but slowly after a few hours. Nevertheless it is advisable not to leave SikaSwell [®] S-2 any length of time in standing water (max. 24 hours as long as the water can drain away).	
	Do not use SikaSwell [®] S-2 for movement joints!	
	If the water level suddenly increases the watertightness of joints will be achieved when SikaSwell^ $^{\mbox{\scriptsize B}}$ S-2 has swollen.	
	In a totally dry state SikaSwell $^{\ensuremath{\mathbb{R}}}$ S-2 shrinks to its original dimensions, but expands again in contact with water.	
	Although SikaSwell [®] S-2 has been tested to water pressures up to 5 bar, it is not recommended for sealing against water pressures higher than 2 bar because of the limited sealing distance.	
Value Base	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.	
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.	
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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