

PRODUCT DATA SHEET

SikaSwell® A Ring

Hydrophilic swellable ring profiles for sealing formwork spacer bar

DESCRIPTION

SikaSwell® A Ring is an acrylic sealing ring profile. It swells in contact with water to seal spacer bars / tie-bars / tie rods.

USES

The Product is used to seal:

- Formwork spacer bars / tie-bars / tie rods
- Any equal penetration in concrete structures where the dimension fits

CHARACTERISTICS / ADVANTAGES

- Easy and fast to apply
- Highly economical solution
- Ready profile, no hardening time required
- Permanently water resistant (wet & dry cycles)

PRODUCT INFORMATION

Chemical Base	Acrylic polymer		
Packaging	Water swellable rings packed in cardboard boxes. Refer to the current price list for packaging variations.		
Appearance / Colour	Red coloured rings		
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 and +35°C. Always refer to packaging.		
Density	1.50 kg/l (at +23 °C)		(EN ISO 2811-1)
Diameter	Type	Internal diameter	External diameter
	18	18 mm	20 mm
	26	26 mm	28 mm
	43	43 mm	45 mm

Cross section (schematic view):



TECHNICAL INFORMATION

Shore A Hardness	(10 ± 5)	(DIN 53505)	
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.			
Service Temperature	Maximum	+50 °C	
	Minimum	-20 °C	

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.

LIMITATIONS

- The Product must be placed in the centre of the concrete structure. The minimum cover to sealant on both sides must be 8 cm (reinforced concrete) or 15 cm (unreinforced concrete).
- The Product expands in contact with water. This is not instantaneous and will take a few hours.
- In a totally dry state the Product shrinks to its original dimension. The Product then expands again upon further contact with water
- The Product is recommended for sealing against water pressures up to 1 bar. For pressures higher than 1 bar use an alternative or supplementary Sika Joint Sealing solutions or contact Sika Technical Services for further information.
- Protect the Product against water (for example rain) until the concrete is placed.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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

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

APPLICATION

1. Roll the SikaSwell® A Ring over the formwork spacer sleeve.
2. Install the formwork spacer sleeve into the formwork so that the SikaSwell® A Ring is positioned in the centre.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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