

## PRODUCT DATA SHEET

# SikaSwell® PS-2005

## SWELLABLE JOINT SEALING STRIP

### DESCRIPTION

High performance hydrophilic rubber sealing strip which swells 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

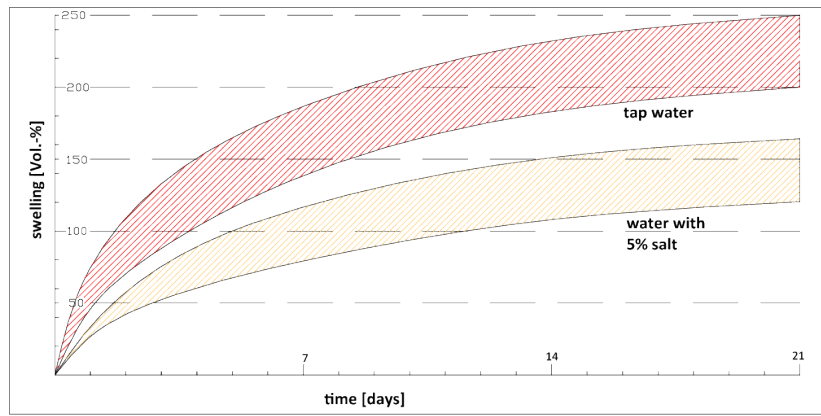
- Easy to apply
- Can be applied on different substrates
- Highly economical
- Swells in contact with water
- Can swell into cracks and gaps
- Long-term reliability tested
- Resistant against water and various chemical substances
- No hardening time required
- No welding required
- Adaptable to fit many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

### PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| <b>Chemical Base</b>       | Rubber  |
| <b>Packaging</b>           | 15 m x 10 rolls per box   |
| <b>Appearance / Colour</b> | Black   |
| <b>Shelf Life</b>          | 12 months from date of production   |
| <b>Storage Conditions</b>  | Store in unopened, undamaged and sealed original packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from UV light. |
| <b>Width</b>               | 20 mm   |
| <b>Thickness</b>           | 5 mm  |

# TECHNICAL INFORMATION

## Change of volume



## Swelling pressure

≤ 16 bar after 3 days stored in tap water

## SYSTEM INFORMATION

### System Structure

- SikaSwell® PS-2005
- SikaSwell® S-2

## 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

- SikaSwell® PS-2005 expands in contact with water. This does not happen immediately, but slowly after several hours. Nevertheless it is advisable not to leave SikaSwell® PS-2005 any length of time in the open air or exposed to rain water (max. 24 hours as long as water can drain away).
- Do not use SikaSwell® PS-2005 for movement joints.
- If the water level suddenly increases, the watertightness of joints will only be achieved when SikaSwell® PS-2005 has swollen.
- In a totally dry state SikaSwell® PS-2005 shrinks to its original dimensions, but expand again in contact with water.
- Do not use SikaSwell® PS-2005 for sealing against water pressures higher than 2 bar because of the limited sealing distance.
- If SikaSwell® PS-2005 is to be fixed around small diameter pipes use additional mechanical fixing with tie wire or a sleeve.

## 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, 'matt 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. We recommend smoothing of freshly placed concrete with a batten where the sealing profile is to be placed.

### APPLICATION METHOD / TOOLS

Clean the surface. All loose particles can negatively affect the bonding to the surface. Cut SikaSwell® PS-2005 to the required length. Apply SikaSwell® S-2 to the clean surface. Press the SikaSwell® PS-2005 into the applied SikaSwell® S-2.

It is important to get a full bonding to the surface. SikaSwell® PS-2005 need a concrete cover of at least 8 cm.

Protect the SikaSwell® PS-2005 against water (e.g. rain) until the concrete is placed.

It is important that a full and continuous contact between SikaSwell® PS-2005 and the substrate is achieved.

During concreting, compact well around SikaSwell® PS-2005 to provide a dense concrete without and honeycombs or voids.

## 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.

### Sika (Singapore) Pte Ltd.

28 Tuas South Ave 8

Singapore 637648

Phone: +65 6861 0632

Fax: +65 6862 3915

Email: sales@sg.sika.com

www.sika.com.sg



### Product Data Sheet

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