

PRODUCT DATA SHEET

SikaSwell® PS-2010

Swellable joint sealing strip

DESCRIPTION

High performance hydrophilic rubber sealing strip that swells when in contact with water.

USES

To seal:

- Construction joints
- Pipe and steel work penetrations through concrete walls and floor slabs
- Construction joints in precast concrete
- Construction joints in cable ducts, etc.
- Around all types of penetrations through concrete

CHARACTERISTICS / ADVANTAGES

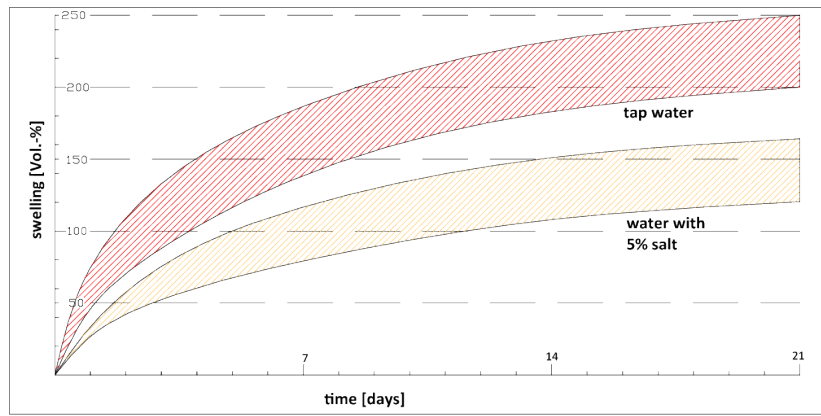
- Easy to apply
- Can be applied on different substrates
- Highly economical
- Swells in contact with water
- Can swell into cracks and gaps
- Long-term reliability tested
- Resistant against water and various chemical substances
- No hardening time required
- No welding required
- Adaptable to fit many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

PRODUCT INFORMATION

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

TECHNICAL INFORMATION

Change of volume



Swelling pressure

≤ 16 bar after 3 days stored in tap water

SYSTEM INFORMATION

System Structure

Swellable joint sealing strip
Adhesive

SikaSwell® PS-2010
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-2010 expands when in contact with water. This does not happen immediately, but slowly after several hours. Nevertheless it is advisable not to leave SikaSwell® PS-2010 at 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-2010 for movement/expansion joints.
- If the water level suddenly increases, the watertightness of joints will only be achieved when SikaSwell® PS-2010 has swollen.
- In a totally dry state SikaSwell® PS-2010 shrinks to its original dimension, but will expand again when coming in contact with water.
- Do not use SikaSwell® PS-2010 for sealing against water pressure higher than 2 bar because of the limited sealing distance.
- If SikaSwell® PS-2010 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 or 'matt damp', and 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. Sika® recommends smoothing of freshly placed concrete with a batten where the sealing profile is to be placed.

APPLICATION METHOD / TOOLS

- Clean the substrate surface. Loose and friable particles can negatively affect the bonding of SikaSwell® PS-2010 to the substrate surface.
- Cut SikaSwell® PS-2010 to the required length.
- Apply SikaSwell® S-2 (through the triangle nozzle) to the clean substrate surface to a thickness of ~5 mm.
- Press SikaSwell® PS-2010 into the freshly applied SikaSwell® S-2.
- It is important that SikaSwell® PS-2010 is fully bonded to the substrate surface.
- A concrete cover of at least 8 cm must be maintained on all sides when placing SikaSwell® PS-2010.
- Allow SikaSwell® S-2 to harden for 2–3 hours before placing concrete.
- Protect SikaSwell® PS-2010 and SikaSwell® S-2 against water (e.g. rain) until the concrete is placed.
- It is important that a full and continuous contact between SikaSwell® PS-2010 and the substrate is achieved.
- During concreting, compact well around SikaSwell® PS-2010 to provide a dense concrete without any 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.

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March 2021, Version 01.01

020703300100000006

SikaSwellPS-2010-en-SG-(03-2021)-1-1.pdf