

Technical Data Sheet
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 Sikaswell@-P

SikaSwell® -P

Swellable Sealing Profiles

Description	Sealing profiles which swell in contact with water.
Uses	Depending on type of profile, to seal : <ul style="list-style-type: none"> ■ Construction joints ■ Pipe penetrations through walls and floor slabs ■ Penetrations of any kind ■ Tunnel segment joints ■ Etc.
Properties	<ul style="list-style-type: none"> ■ Well in contact with water ■ Permanently water resistance, no leaching ■ Elastic ■ Easy, simple application ■ Adaptable to fit many different detail tasks ■ Can be applied on different substrates ■ Defined dimensions ■ Needs no hardening time ■ With protective coating to avoid premature swelling
Profiles	Normal type : Single swellable profile : Type 2003 Hybrid type : Dual swellable profile : Type 2507H Type 2010H
Technical Data	
Basis	Polyolefine-rubber combined with water-soluble resins which swell in contact with water
Shore A hardness	Swellable parts : Black inner core Highly swellable part : red outer covering
Colour	50 – 65
Tensile strength at 50% elongation	= 0,6 N/mm ²
Elongation at break	150%
Volume expansion	The profile volume increases by 150% minimum if stored in tap water at 23 °C for 14 days. In salty or contaminated water the swelling properties may be reduced and delayed
Shelf Life/ Storage	Store in cool and dry conditions, protected from UV light shelf life is at least 48 months date of production

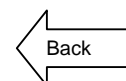
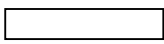




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Packaging

Rolls packed in cardboard boxes, quantity depending on type of profile, consult Table

Type	Width (mm)	Thickness (mm)	Original dimensions, before swelling	Description	M/box
2003	20	3		Highly Swellable profile	10 140
2010H	20	10		Hybride profile with stabilizing inner core	50
2507H	25	7		Hybrid profile with pressure relief chambers	10 50

Other profiles are available on request

Instruction for use**Substrate**

The substrate should be dry or mat moist, free of loose particles, dust laitance, honeycombs and protruding coarse aggregates. We recommended smoothing of freshly placed concrete with a batten where the sealing strip is to be placed.

Fixing

Depending on substrate type and condition as well as type of profile:

On smooth, dry substrates such as PVC, metals, precast concrete elements:

- All SikaSwell profiles may be fixed with Sika Contact Adhesive, which is applied by small brush to the SikaSwell profiles as well as the substrate. After a drying time of approx. 15 minutes the SikaSwell profile is pressed well onto the glue line
- All SikaSwell profiles may be glued with SikaSwell S.A thin bead of approx. 3 mm diameter SikaSwell S is applied to substrate. The profile must be placed within max. 30 minutes on to and pressed well into the still fresh SikaSwell S Sealant until small quantities of SikaSwell S ooze out from both sides of profile. The adhesive will harden with approx. 1 day.

On rough, dry or mat moist substrates:

- All SikaSwell profiles may be glued with SikaSwell S.
- SikaSwell-S is extruded in sufficient quantity to level the roughness of the substrate. The profile must be placed within max. 30 minutes onto and pressed well into the still fresh SikaSwell-S sealant until small quantities of SikaSwell ooze out from both sides of the profile. The adhesive will harden within approx. 1 day.

General

- The profile should be placed in the centre of the concrete section. Minimum cover on both sides must be 10 cm (in reinforced concrete), or 15 cm (in non reinforced concrete).
- Connections and corners are butt jointed.
- During the following concreting phase care must be taken that the SikaSwell profile is completely covered with a dense concrete without any honey combs. This best achieved by placing a mortar – or fine- concrete breast

Important

Although SikaSwell-P has been tested to water pressures of 5 bar, due to the short distance for the water to travel around the profile, it is not normally recommended for water pressures higher than 0,3 bar. In this case use SikaSwell-P profiles only as a temporary or additional sealing measure because of possible honey combs or other concrete defects in the joint area, resp. where the profile has been placed.

SikaSwell-P swells in contact with water. This does not happen immediately, but slowly after a few hours. Nevertheless it is advisable not to leave SikaSwell-P any length of time in standing water.
Exposure to a rain shower does not have any negative impact as long as the water can drain away.

In case of rapidly rising ground water table no immediate sealing is possible due to the time required for the profile to swell.
Once swelled SikaSwell profiles will revert to their original size in case of complete drying out. However, they swell again in renewed contact with water.

If SikaSwell profiles are to be fixed around pipes with small diameter we recommend mechanical fixing with binding wire or a sleeve.

Do not use for movement joints!

Safety instructions

Toxicity

Non-toxic under the relevant Swiss Health and Safety Codes, with the exception of the adhesives

Ecology

Do not pour adhesive in to water or soil, but in accordance with local legislation

Transport

Non-hazardous, with the exception of the adhesives

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 product 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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