




SikaSwell[®] Profile

Swellable Waterstop

Construction

Description	SikaSwell [®] Profile waterstops are sealant tapes that swell when in contact with water, forming a watertight seal.
Uses	<ul style="list-style-type: none"> • Construction joints and cold joints. • Pipe penetrations through walls and floors. • Tunnel segment joints.
Advantages	<ul style="list-style-type: none"> • Swells when in contact with water. • Permanently water resistant – no leaching. • Waterproofs economically and is easy to apply. • Requires no hardening time. • Simply fixed to concrete surface. • Defined dimensions. • Protective coating to avoid premature swelling.
Storage and Shelf Life	Stored in cool, dry conditions, the shelf life is a minimum of twelve (12) months.
Application	
Substrate preparation	The substrate must be dry, free of loose particles, dust, laitance, honeycombs and protruding coarse aggregate. It is recommended that freshly placed concrete be smooth where the sealant profile is to be placed, or use SikaSwell S-2 as adhesive.
Applications	<p>On smooth, dry substrates (PVC, metals, precast concrete elements): SikaSwell[®] Profile should be adhered to the substrate using a thin bead (3mm diameter) of SikaSwell[®] S-2, or suitable adhesive. The Profile should be pressed onto the bead of SikaSwell[®] S-2 within 30 minutes of the bead being placed. Press firmly until small quantities of SikaSwell[®] S-2 ooze out from both sides of the profile. The adhesive will harden within 24 hours.</p> <p>On rough, dry or matt moist substrates: SikaSwell[®] Profile should be adhered to the substrate using sufficient of SikaSwell[®] S-2 to level out the rough substrate.</p> <p>The profile should be placed in the centre of the concrete section, with minimum cover of 100mm on both sides. Connections and corners are butt-jointed.</p> <p>It is important that dense concrete be placed without honeycombs appearing on the joint face. If this occurs, place a thin layer of mortar or fine concrete over the substrate.</p>

Profile Type

Type	Width (mm)	Thickness (mm)	Original dimensions, before swelling	Most suitable field of application	m / box
HP-1	25	7		Construction joints	50 10
LT-10	20	3		Sealing work of lesser importance, parallel sealing and construction joint	140
UN-100	20	10		Construction joints, special requirement.	50



Technical Data (Typical)

Basis	EPDM – Rubber combined with water insoluble resins
Colour	Non swellable parts: Black Swellable parts: Red
Shore A Hardness	75 approx.
Tensile Strength at break	> 3 N/mm ²
Elongation at break	> 100%
Volume increase	The swellable part has a volume increase of approx. 200% if stored in drinking water at 23°C for 5 days. In salty or contaminated water the swelling properties may be reduced or delayed.
Packaging	Rolls packed in boxes, quantity depend on type of profile, refer to table above.

Important Notes

- Once swollen, SikaSwell[®] Profile will revert to their original size when completely dried out. They will swell again when renewed contact with water occurs.
- If SikaSwell[®] Profile are used around small diameter pipes, it is recommended that they be fixed mechanically with binding wire.
- Do not use SikaSwell[®] Profile for movement joints.
- In salty or contaminated water the swelling properties may be reduced.
- In case of rapid rising of ground water, the joint will not be immediately sealed due to the time required for the profile to swell.
- Use SikaSwell[®] Profile as temporary sealants or as part of a combination sealing system when joints in the concrete structure are subjected to water pressure greater than 0.3 bar.

Handling Precautions

- SikaSwell[®] Profile are non toxic and non hazardous.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

