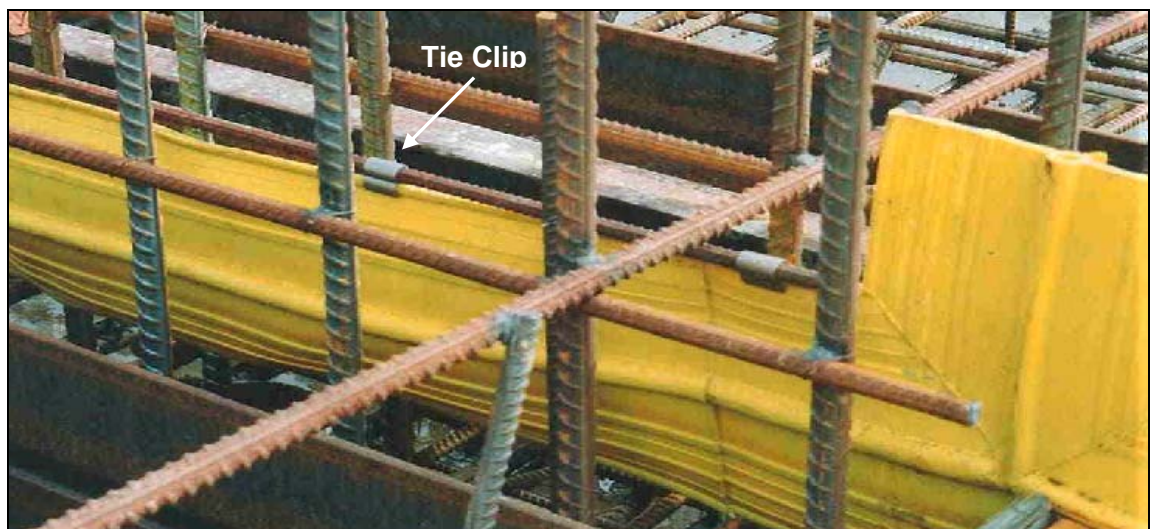


Sika® Waterbars

Flexible PVC water stops

Description	Sika® Waterbars are flexible PVC water stops to seal construction and expansion joints in concrete structures.
Uses	Sika® Waterbars are used in concrete for the sealing of construction and expansion joints. It is installed in a specified position, allowing concrete to be poured around it. The material takes up its function as a joint sealant once the concrete has hardened and a joint has been formed. Depending on the type of Waterbar, it can be used for construction or expansion joints.
Advantages	<ul style="list-style-type: none"> • Multi-rib sections provide a tortuous path and impenetrable water check. • Easy to fix using tie-clips (See below photo) • Easy on-site welding. • High strength PVC material.
Specification	Sika® Waterbars comply with: U.S. Corporation of Engineers Specification. CRD-C572-74 Requirements of BS2571 and BS2782
Storage and Shelf Life	Store in cool, dry conditions, protected from UV light. Shelf life is at least five (5) years.
Instructions for Use	
Application	<p>SURFACE WATERBARS: Installed into the face of the concrete structure. The waterbar is typically fixed on the water side of the concrete wall or floor, by attaching it temporarily to the formwork using fixing wire. The protruding ribs become cast into the concrete to provide an excellent watertight seal as well as securely anchoring the waterbar to the structure.</p> <p>INTERNAL WATERBARS: The waterbar is fitted into split formwork or shuttering for casting centrally into the concrete. Use fixing wire or tie-clips to attach waterbar to internal reinforcement.</p> <p>WELDING: Sika® Waterbars are made from thermoplastic PVC and can therefore be welded. The ends are heated with on-site welding equipment until the PVC becomes plastic and is then immediately pressed together. Sika-Waterbars allow easy on-site welding, including the prefabrication of cross, T, L and corner pieces.</p>



Profiles

Centrestop

Centrally placed **Sika® Waterbars O** type section is used in expansion, contraction and construction joints. The bulb in the centre allows for movement in the structure to be accommodated for. The waterstops are easily anchored to the steel reinforcement using special tie-clips.



Type	Width (mm)	Roll length (m)	Bulb diameter (mm)	Nominal Thickness
O-15	150	15	12	2.5
O-20L	200	15	12	2.2
O-25L	250	15	16	2.4

Rearguard - construction

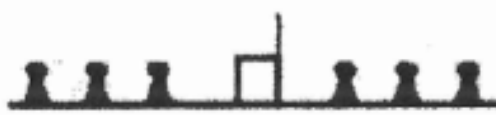
The externally placed rearguard **Sika® Waterbars AR** sections are used in construction and contraction joints. The centrally placed fin assists with shutter locations



Type	Width (mm)	Roll length (m)	Bulb diameter (mm)	Nominal Thickness
AR-18	200	15	n/a	3.5
AR-24	250	15	n/a	3.5

Rearguard - expansion

The externally placed rearguard **Sika® Waterbars DR** sections are designed with a flat top box section, with a protruding fin, to assist with positioning and to provide a chair to support the joint filler. The section is used in expansion joints to accommodate movement.



Type	Width (mm)	Roll length (m)	Bulb diameter (mm)	Nominal Thickness
DR-19	210	15	n/a	3.5
DR-25	260	15	n/a	3.5

Intersections

A wide range of standard intersection pieces are available. All have a minimum 200mm free leg, allowing easy butt-welding on site. For non-standard types, drawings must be provided, giving exact details of angles and length of legs.

Standard intersection pieces include: X, T and L pieces both flat and on edge

Ancillary items

Sika provide a number of ancillary items required, on sale or hire, for site application of Sika Waterbars, including:

PVC heat welding equipment

Sika Waterbars jointing jigs

Sika Waterbars Tie Clips

Note – all materials listed above are available ex-Sika Australia. Other profiles or unconventional intersections must be ordered accordingly and depending on availability. Contact your local Sika representative for further details.

Technical Data (Typical)

Basis	Polyvinyl Chloride
Colour	Yellow
Density	1.3kg/litre
Service Temperature	-35°C to 55°C
Hydrostatic Head	Up to 60 metres
Joint Movement	Up to 10 mm (expansion joint profiles only)
Shore A Hardness	70
Tensile Strength (ASTM-D412-75)	longitudinal > 13 N/mm ² transverse > 12.5 N/mm ²
Elongation at Break (ASTM-D412-75)	longitudinal > 310% transverse > 260%
Alkali Resistance (CRD-C572-65 ARMY Corps of Engineers)	Passed
Chemical Resistance	Permanent – Water, seawater, sewage. Temporary – Diluted inorganic alkalis and mineral acids, mineral oils.
Welding Temperature	Approx. 200°C
Packaging	15 metre rolls

Important Notes

- Good placement practice must be followed to ensure that concrete is well placed and compacted around the Sika-Waterbar during installation.
- In the case of factory made junctions, where angles are not 90°C, drawing must be provided giving exact joint details.
- Other profile types and widths are available upon request (depending on volume). Speak to your local Sika representative about availability.

Handling Precautions

- Sika® Waterbars 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.

