



Sika Waterbars® -Thick

Product Description	Flexible PVC (Thermoplast) heavy-duty waterstops to seal construction and expansion joints in concrete structures. Sika Waterbars® -Thick is centrally placed.
Uses	Sika Waterbars® -Thick is used to seal heavy duty construction, contraction and expansion joints in water retaining structures such as reservoirs, water towers, dams, spillways, canals, sewage tanks etc. as well as to keep water out of concrete structures such as tunnels, subways retaining walls, etc....
Advantages	<ul style="list-style-type: none"> ■ Increased web thickness gives a much stiffer section so, that they are self-supporting. ■ Multi rib sections of the tortuous path principal. ■ High quality PVC for long durability. ■ Easy to install, easy to weld on site. Factory produced cross-sections are available. ■ Suitable for high water pressure.
Specification	Comply to the outline requirements for the international specifications. <ul style="list-style-type: none"> ■ B.S. 2571. ■ DIN 18541 (Part-2). ■ CDR-C 572-74 U.S Corps of engineers specifications & requirements.

Product Data

Colour	O-Type yellow V-type Grey.					
Form	Thick profile	Type	Width (cm)	Roll Length (m)	Nom Thickness (mm (±10%))	Max. Waterhead (m)
	Construction Joint 	V-23 T	23	15	10	27
	Expansion Joint  Max. 20 mm expansion and 10 mm shear movement	O-23 T*	23	15	10	27

Packaging	15 m roll.
Technical Data	
Density	1.45 ± 0.15 kg/l
Base	Polyvinyl Chloride
Tensile strength (ASTM D638-99) (DIN 18541 Part 2)	> 10 N/mm ²
Elongation at break (ASTM D638-99) (DIN 18541 Part 2)	> 300 %
Shore A Hardness	80± 5
Chemical resistance	Permanent: Water, seawater, sewage. Temporary: Diluted inorganic alkalis, mineral acids and mineral oils.
Alkali resistance (CRD-C572-65 ARMY-Corps of Engineers)	Passed.



Application Details

Service Temp. - 35°C to + 65°C

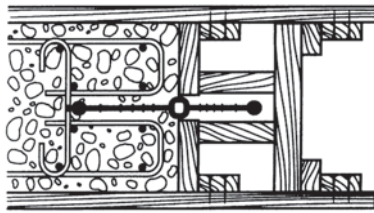
Welding temperature ~ 200°C.

Application

Fixation

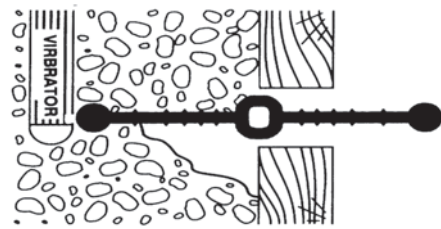
Proper fixing of the waterbars to the reinforcement (or formwork) is essential, as are careful pouring and compaction of the concrete. Fixing clips for internally placed waterbars are available.

Fixing

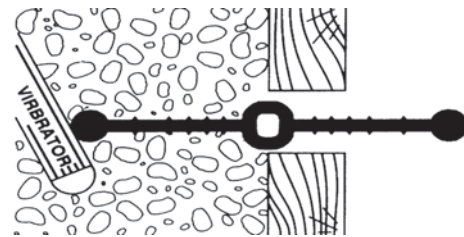


Centrally placed types

Compaction



Wrong



Correct

Welding Waterbars

Sika Waterbars® – Thick are made from thermoplastic PVC and can therefore be welded easily. The ends are secured in a welding jig (available for each type) and heated with suitable welding equipment is then removed and the molten ends pressed together firmly.

Junction Pieces

Junction pieces can easily be manufactured on site. However, a wide range of standardized, factory made junction pieces, are available. All having a 30 cm free leg allowing easy on site welding to Sika Waterbars® – Thick, for non standard junction pieces drawings giving exact measurements and angle details are required.

Junction Pieces

Material requirement and number and type of welding.

Type	Material*		Welding -type
Cross-piece,	flat	1.20 m + 2.0 x width	2 mitre-weldings
Cross-piece,	Vertical	1.20 m	2 butt-weldings
T-piece	flat	0.90 m - 1.5 x width	1 mitre-welding
T-piece	Vertical	0.09 m	1 butt-welding
L-piece	flat	0.60 m - 2.0 x width	1 mitre-welding
Corner-piece	Vertical	0.60 m,	1 butt-welding

Free Wing: 30 cm (all)

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.

