BUILDING TRUST

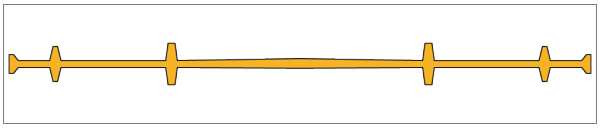
PRODUCT DATA SHEET

Sika Waterbar® V M MY

CENTRALLY PLACED WATERBARS FOR CONSTRUCTION JOINTS

DESCRIPTION

Sika Waterbar® V M MY is used to seal construction joints in concrete structures.



USES

Used in water retaining structures such as reservoirs, water towers, dams, spillways, canals, swimming pools, sewage tanks, etc. to keep water out of concrete structures such as basements, underground car parks, tunnels, subways, retaining walls, etc.

CHARACTERISTICS / ADVANTAGES

- High quality PVC for long durability
- Suitable for high water pressure
- Easy to weld on site
- Many different sizes and types available, depending on their use

APPROVALS / STANDARDS

Sika Waterbar® V M MY conform to the requirements of BS 2571

PRODUCT INFORMATION

Composition

Polyvinyl Chloride

Packaging

Type	Roll length
V-15 M MY	~20 m
V-20 M MY	~20 m
V-25 M MY	~20 m
V-32 M MY	~15 m

Appearance / Colour

Yellow flexible strip

Shelf Life

5 years from the date of production

Storage Conditions

Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +25 °C. Protect from direct sunlight.

Total Width

Type	Width
V-15 M MY	~150 mm
V-20 M MY	~200 mm
V-25 M MY	~250 mm
V-32 M MY	~320 mm

Thickness	V-15 M MY	3.0–4.5 mm
	V-20 M MY	3.0–4.5 mm
	V-25 M MY	3.0–4.5 mm
	V-32 M MY	3.0–4.5 mm

TECHNICAL INFORMATION

Shore A Hardness	75 ± 5	(BS 2782: 365B)
Tensile Strength	> 12 N/mm²	(BS 2782: 320A)
Elongation	≥ 300 %	(BS 2782: 320A)
Chemical Resistance	Permanent	Water, seawater and sewage
	Temporary	Diluted inorganic alkalis, mineral acids and mineral oils
Service Temperature	-35 °C min. / +55 °C max.	

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Welding
Sika Waterbar® V M MY are made from thermoplastic PVC and therefore allow an easy onsite welding. However, it is recommended to use factory fabricated junctions such as T, L, X and Corner pieces. The ends are heated with a welding blade until the PVC melts (without burning or charring). The welding blade is removed and the molten ends are immediately pressed together. The welded joint should be inspected once it has cooled.
Sources of welding errors:
- Irregularity of cut edges
- Insufficient or excessive heating of blade

Dirt accumulation on blade including charred remains of PVC. Clean PVC from blade while it is still hot.

Placing of Waterbars
Placing is executed in accordance with the engineer's drawings on which Sika Waterbar® profile and the position required are marked. Level differences, bends, junctions, etc. should be carefully considered before placing. The use of factory produced junction pieces are encouraged so that on-site welding is reduced to only simple butt joints, thereby minimising joint failure. Sika Waterbar® V M MY are placed continuously, thereby maintaining an integral sealing network.

Fixing To Reinforcement
Pre-punched eyelets are located in the outer flanges of the profiles. These simplify the fixing of Sika Waterbar® V M MY to the steel reinforcement with tie wires to ensure Sika Waterbar® V M MY are not displaced during concreting.

Fixing To Formwork
A 2-part (split) formwork may be used (preferred). In this method, allow half of the Sika Waterbar® V M MY to jut out while the other half is cast-in. Sika Waterbar® V M MY is clamped between the formwork.

Placing the Concrete
Sika Waterbar® V M MY provide an effective and thorough means of waterproofing. However, care must be taken to ensure that concrete is well placed and compacted around Sika Waterbar® V M MY area.
Sika Waterbar® V M MY performs only if both sides are well embedded in the concrete. The accumulation of coarse aggregates (honeycombs) should be avoided around the Sika Waterbar® V M MY. Only dense, well compacted concrete can ensure proper sealing between the concrete and Sika Waterbar® V M MY. Placing of fresh concrete near Sika Waterbar® V M MY requires care or it may be forced from its position by pressure of the fresh concrete. To prevent this, the same concrete pressure must be present on both sides of Sika Waterbar® V M MY during placing. The consistency of the concrete itself should be neither too plastic nor too stiff and the aggregate must be well graded. Vibration should be executed with care.

Concreting the Second Stage
The concrete around Sika Waterbar® V M MY should be thoroughly checked for honeycombing on the stopends and repaired if necessary. Sika Waterbar® V M MY must be cleaned of all hardened concrete remnants adhering from the first concrete stage. The same precautions highlighted above should also be observed during second stage concreting.

Stripping
Removal of the formwork around Sika Waterbar® V M MY must be done with care.

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.

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.

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.

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.

Sika Kimia Sdn. Bhd.
Lot 689, Nilai Industrial Estate, 71800
Nilai
Negeri Sembilan D.K., Malaysia
Phone: +606-7991762
Fax: +606-7991980
e-mail: info@my.sika.com