

## PRODUCT DATA SHEET

# Sika Waterbar® AR M MY

### SURFACE WATERBARS FOR CONSTRUCTION JOINTS

#### DESCRIPTION

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

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyvinyl Chloride	
<b>Packaging</b>	<b>Type</b>	<b>Roll length</b>
	AR-15 M MY	~20 m
	AR-20 M MY	~20 m
	AR-25 M MY	~20 m
	AR-32 M MY	~15 m
<b>Appearance / Colour</b>	Yellow flexible strip	
<b>Shelf Life</b>	5 years from the date of production	
<b>Storage Conditions</b>	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +25 °C. Protect from direct sunlight.	
<b>Total Width</b>	<b>Type</b>	<b>Width</b>
	AR-15 M MY	~150 mm
	AR-20 M MY	~200 mm
	AR-25 M MY	~250 mm
	AR-32 M MY	~320 mm
<b>Thickness</b>	AR-15 M MY	3.0–4.5 mm
	AR-20 M MY	3.0–4.5 mm
	AR-25 M MY	3.0–4.5 mm
	AR-32 M MY	3.0–4.5 mm

## TECHNICAL INFORMATION

Shore A Hardness	75 ± 5	(BS 2782: 365B)
Tensile Strength	> 12 N/mm <sup>2</sup>	(BS 2782: 320A)
Elongation	≥ 300 %	(BS 2782: 320A)
Chemical Resistance	Permanent Temporary	Water, seawater and sewage Diluted inorganic alkalis, mineral acids and mineral oils
Service Temperature	-35 °C min. / +55 °C max.	

## 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.

## 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.

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

#### Welding

Sika Waterbar® AR M MY are made from thermo-plastic 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® AR M MY are placed continuously, thereby maintaining an integral sealing network.

#### Fixing To Slab

Place Sika Waterbar® AR M MY flat on the lean concrete or base of the structure. The formwork for the stopends will terminate in the middle of Sika Waterbar® AR M MY, allowing half of Sika Waterbar® AR M MY to be cast while the other half is exposed to receive the next casting.

#### Placing the Concrete

Sika Waterbar® AR 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® AR M MY area.

Sika Waterbar® AR M MY perform only if both sides are well embedded in the concrete. The accumulation of coarse aggregates (honeycombs) should be avoided around the Sika Waterbar® AR M MY. Only dense, well compacted concrete can ensure proper sealing between the concrete and Sika Waterbar® AR M MY. Placing of fresh concrete near Sika Waterbar® AR 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® AR 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® AR M MY should be thoroughly checked for honeycombing on the stopends and repaired if necessary. Sika Waterbar® AR 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® AR M MY must be done with care.

## 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.

## 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 (Singapore) Pte Ltd.

28 Tuas South Ave 8  
Singapore 637648  
Phone: +65 6861 0632  
Fax: +65 6862 3915  
Email: sales@sg.sika.com  
www.sika.com.sg



#### Product Data Sheet

Sika Waterbar® AR M MY  
March 2021, Version 01.01  
020703100100000290

SikaWaterbarARMMY-en-SG-(03-2021)-1-1.pdf