

# PRODUCT DATA SHEET

## Sika Waterbar® V VN

### Flexible PVC waterbar

#### DESCRIPTION

Sika Waterbar® V VN is constructed from flexible thermoplastic PVC.

It is designed to stop the migration of water through construction joints in concrete structures.

#### USES

For the effective sealing of concrete construction joints in structures such as:

- Water reservoirs
- Sewage treatment plants
- Swimming pools
- Basements
- Retaining walls
- Lift shafts
- Tunnels, culverts
- Service pits

#### PRODUCT INFORMATION

Chemical Base	Polyvinyl Chloride
Packaging	20 m rolls (other lengths on request)
Shelf Life	5 years from date of production if stored properly
Storage Conditions	Dry, shaded place (protected from sunlight)
Appearance / Colour	Flexible strip / Yellow

#### SYSTEM INFORMATION

System Structure	Type	Width mm (± 5mm)	Roll Length (m)	Nominal Thickness mm (± 10%)
	V-15	150	20	3.0 - 5.0
	V-20	200	20	3.0 - 5.0
	V-25	250	20	3.0 - 5.0
	V-32	320	15	3.0 - 8.0

#### CHARACTERISTICS / ADVANTAGES

- Sealing starts as soon as the concrete has hardened
- Multi rib profile provides impenetrable barriers to water migration
- Can be easily site welded - (welding knife is available)
- Good chemical resistance
- Available various kind of profiles for all of type application

#### APPROVALS / STANDARDS

Local test reports (in Vietnam) are available.



## TECHNICAL INFORMATION

Shore A Hardness	>70	ASTM D2240
Tensile Strength	12 N/mm (± 5%)	ASTM D412-06
Elongation	300% (± 5%)	ASTM D412-06
Service Temperature	-35°C to +55°C	
Chemical Resistance	Permanent: Seawater, sewage Temporary: Diluted inorganic alkalis, mineral acids, mineral oils and fuels.	

## 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.

## LIMITATIONS

Level differences, bends, junctions, etc. should be carefully considered before placing.

## ECOLOGY, HEALTH AND SAFETY

**Ecology:** Can be disposed according to local law

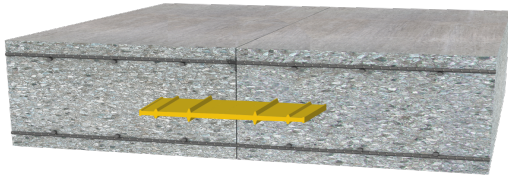
**Transportation:** Non-hazardous

**Toxicity:** Non-toxic

**Important note:** Care should be taken to avoid breathing fumes and smoke during the PVC welding process. Hence, welding should be performed in open, well ventilated area.

In case of doubt always follow the directions given on the pack or label.

# APPLICATION INSTRUCTIONS



## Fixing to formwork

The “V” profile Sika Waterbar® V VN is fitted into the split formwork or shuttering for casting centrally into the stopends. It is used for construction joints and movement joints where nominal movement is anticipated, such as basement or retaining walls.

## Fixing to reinforcement

Pre-punched eyelets are located in the outer flanges of the profiles. These simplify the fixing of waterbars to the steel reinforcement with tie wires to ensure the waterbars are not displaced during concreting.

## Placing concrete first stage

The Sika Waterbar® V VN performs its function only if both sides are well embedded in the concrete. Avoid formation of honey combs by vibrating carefully. The consistency of the concrete itself should be neither too plastic nor too stiff, and the aggregate must be well graded.

Placing of fresh concrete near the Sika Waterbar® V VN requires care, as otherwise it will be forced from its position by the pressure of the fresh concrete, i.e. the ends will fold up. To prevent this, the same concrete pressure must be present on both sides of the Waterbar.

## Placing concrete second stage

Removal of formwork in the neighborhood of Sika Waterbar® V VN must be done with care.

The end of the Sika Waterbar® V VN should be thoroughly checked for honeycombing on the stop-end and repaired if necessary. It must also be cleaned of all hardened concrete remnants adhering from the first concrete stage. Further procedure is similar to the first stage.

## Welding

On site welding can be undertaken using a Sika electric welding knife. Both ends of the joint are heated simultaneously on the faces of the welding knife until an even, molten bead of PVC appears. The welding knife is withdrawn and the Sika Waterbar® V VN are immediately pushed together. The joint should be held rigid until the plastic cools down and solidifies.

Check for any gaps or imperfect joints. Redo the welding if necessary.

Failures can be caused by irregularities of cut edges, insufficient heat, dust etc.

## 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.

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**Product Data Sheet**  
Sika Waterbar® V VN  
February 2023, Version 01.01  
020703100100000297

SikaWaterbarVVN-en-PH-(02-2023)-1-1.pdf