

PENTENS PVC WATERSTOP

Product Data Sheet

PVC Waterstop

Description

PENTENS PVC WATERSTOP is extruded from a high quality polyvinylchloride compound which has been formulated to provide excellent flexibility. They are designed for water-retaining and water-excluding structure where a positive seal is required for poured in-situ concrete expansion, construction and contraction joints.

PENTENS externally-placed polyvinylchloride waterstop is also suitable for use with potable water.

Uses

- Swimming pools
- RC water tanks
- Water treatment plants
- Reservoirs
- Suspended slabs
- Sewage treatment plants
- Retaining wall, basement slabs
- Lit pits
- Underground car parks
- Tunnels
- Dams and spillways
- Below ground slabs
- Roof slabs

Advantages

- Suitable for potable water usage.
- Factory fabricated intersections available.
- Full range profile for every need.
- Nailing flange for positive fixing.
- 4-bulb profile for excellent performance.
- Simple on site jointing.

Technical & Physical Data

Form	Extruded thermoplastic sections
Tensile Strength (ASTM-D412)	> 14.5 N/mm ²
Elongation at Break (ASTM-D412)	> 370%
Hardness Shore A (BS EN ISO 868)	72 +/- 5

Packaging & Size

Internal - Construction Joints

ICJ-320	320mm x 12m /roll
ICJ-250	250mm x 15m /roll
ICJ-200	200mm x 20m /roll
ICJ-150	150mm x 20m /roll

Internal - Expansion Joints

IEJ-250	250mm x 15m /roll
IEJ-200	200mm x 20m /roll

External - Construction Joints

ECJ-200	200mm x 20m /roll
ECJ-250	250mm x 15m /roll

External - Expansion Joints

EEJ-200	200mm x 10m /roll
---------	-------------------

Type	External Expansion/ Internal Construction	External Construction / Internal Construction
------	---	---

Notes

PENTENS PVC WATERSTOP are designed to allow expansion, contraction and other movement that may cause joints to move.

The concrete structures are required to be in watertight condition.

The efficiency of PENTENS PVC WATERSTOP is affected by workmanship and the full compaction of the surrounding concrete.

Application Method

Onsite welding is strongly recommended on the joint or intersection of the PVC waterstop.

The PVC waterstop should be placed inside the joint with one half of its width embedded into each concrete pour.

The PVC waterstop must be securely tied in position using the pre-punched eyelets located at the external outer flanges of the PVC waterstop. The eyelets are placed 150mm to 200mm apart along both outer edges of the PVC waterstop.

For vertical joint application, the formwork should be placed below and on top of the waterstop by butting it up from both sides, achieving a split formwork outcome and it is necessary to secure and hold the position.

For good installation, carefully place the concrete so that it doesn't affect PVC waterstop from its position. Thoroughly vibrate concrete around the PVC waterstop to avoid air entrapment and to provide a positive contact between the PVC waterstop and the concrete.

Care should be taken while installing the PVC waterstop for slab on ground. Make sure concrete is fully vibrated and compacted around and underneath the PVC waterstop and all its ribs.

Site Joining

Reduce the number of joints for better application.

Welding blade must be pre-heated. Place the end of PVC waterstop through the adjustable jig and clamp down using assembly screws, cut off both ends with a sharp knife or a tooth saw.

Loosen the clamps and slide back. Allow approximately 10-15mm for PVC waterstop to protrude from both ends. Clamp the jigs tightly in position. When the jig slides, the ends should meet squarely and it is important for the profiles to match up.

Slide the two halves of the jig apart and position the pre-heated welding blade on the bars between the waterstop profiles. Slide the two sections back together until they press against the sides of the heated blade and maintain the pressure against the blade in this position.

The PVC waterstop should melt without charring or burning.

Slide the jig apart, remove the heated blade and slide the two halves of the profile back together while holding them under pressure for 1 to 2 minutes to melt the PVC and fuse them together. Unclamp the jigs and carefully remove the joined PVC waterstop. Do not flex the joint until it is cool and dry.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. If contact with eyes occurs, rinse with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.

PENTENS**UFON NANO-CHEMICAL LTD.**

8F, No.2, Lane 348, Sec 2, Chung-Shang Road,
Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
Tel: +886 2 2240 0220 Fax: +886 2 2242 6536
URL: www.pentens.com
E-mail: pentens@ms35.hinet.net

DONG JI (M) SDN. BHD.

No.8, Jalan TPP 5/7, Taman Perindustrian Puchong,
47100 Puchong Selangor, Malaysia.
Tel: +603 8060 4396 Fax: +603 8060 4394
URL: www.pentens.com.my
E-mail: dj@pentens.com.my