

EDEN PVC WATERSTOP

Advanced Hydrophobic PVC WaterStop

PRODUCT DESCRIPTION

EDEN PVC WATERSTOP is a (4th generation) innovative hydrophobic PVC Water stop composed of high-grade PVC compound which is designed to give excellent flexibility and longevity characteristics. It is available as straight lengths and factory produced intersections. It is suitable for durable waterproofing of below/above concrete joints. It exhibits excellent weather resistance and can waterproof concrete joints as far as its depth into the concrete. Factory prefabricated segment of special joint can be made available to minimize site joining. EDEN PVC WATERSTOP is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ.

SPECIAL FEATURES

- ✚ Easily welded at joint by heating
- ✚ Available in several profile designs.
- ✚ Environmentally safe and non-polluting,
- ✚ Retains flexibility throughout the life span of the structure once installed.
- ✚ Proven track record of excellence.
- ✚ Applicable to both horizontal and vertical surfaces.
- ✚ Quick and Ease to install
- ✚ A range of profiles and sizes to suit all construction requirements
- ✚ Factory made intersections to simplify and minimize on-site fabrication
- ✚ Conforms to relevant international standards
- ✚ Eye lets punched in outer flanges for easy wire tying to reinforcing bars
- ✚ Long roll lengths to reduce the amount of welding /joining on site
- ✚ Highly economical
- ✚ High water repellence and resistant to various chemical substances.
- ✚ Ready for casting once installed.
- ✚ Can be adapted to fit many different detailing tasks
- ✚ Suitable for use on below / above grade structures.
- ✚ Equipped with the most recent hydrophobic technology in its formulation.
- ✚ Does not support bacterial and Fungal growth
- ✚ Can accommodate structural movement within tolerable limits.

WHERE TO USE

EDEN PVC WATERSTOP is suitable for application in the following areas:

- ✚ Subway stations
- ✚ All kinds of cast-in-place concrete construction joints,
- ✚ Tunnels, pits, Sewerage & water treatment plants
- ✚ Waterproofing Swimming pools and reservoirs joints.
- ✚ Basements Joints and lift pits joints etc.
- ✚ All kind of Sub-grade construction joints

APPLICATION PROCEDURE

Stage-1: INSTALLATION PREPARATION/INVESTIGATIONS

A – Pre-Installation Investigation

- ✚ Check application area to ensure there is no sharp edge material tipping out that can tear or puncture the water-stop. The use of a brush can be employed for surface cleaning where so required.

B - Installation Preparation

- ✚ Careful surface preparation is essential to aid proper bonding and durability thus, EDEN PVC WATERSTOP surface needs to be clean, dry and optionally primer with a bonding agent if deemed necessary.

C - Post Installation Preparation Investigation

- ✚ Ensure that EDEN PVC WATERSTOP is adequately fastened at regular interval to reinforcement in order to prevent caving in of the water-stop during concrete pour application.

Stage-2: INSTALLATION

- ✚ PVC Water-stop profiles are fixed generally in the middle of the slab or wall joint of the concrete structure. This profile creates a barrier to water trying either to enter or leave the structure.
- ✚ Unroll EDEN PVC WATER-STOP gradually, ensuring that it is not punctured during the process.
- ✚ The central bulb enables it to be safely used in joints where movement may occur, hence it is paramount to ensure that it is accurately placed in position at the centre.
- ✚ Fasten EDEN PVC WATERSTOP securely to the nearest sturdy reinforcement bar to the factory fitted eyelet opening by means of a binding wire or any suitable material.



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- A series of eyelets have been formed into the outer flanges of the profile so the water-stop can be quickly wire-tied onto the neighbouring steel reinforcement without the risk of water ingress due to the profile falling over.

Site Joining

- On-site joining is a simple exercise using ED-WATERSTOP, heat welding equipment comprising of an adjustable welding jig and heating blade. The ends of the water-stop are cut square and placed into the adjustable jig.
- The ends of the water-stop then slide up against the heating blade until a bead of molten PVC appears along the length of the blade.
- Remove the heating blade and bring the two ends together until the molten ends of the PVC fuses together.
- Ensure to check / test the efficiency of the joint for leakages before installation.

RECOMMENDATION:

Before Use

Check product seal to ensure it is unbroken or fake. Consult customer support should any concern arise for clarity and Technical support.

General

- When ordering welding equipment, client is advised to take note of the style and width of water-stop as this would determine the length of the welding equipment required.
- Be care to observe written instruction on all technical documents for this product such as *Safety Data Sheet, Method Statement Data Sheet, Technical Data Sheet, and Test Certificate Results.*
- It is important that all water-stops are held securely during the concrete pour and that the concrete is properly compacted to remove voids and porous

areas.

- Where reinforcing steel exists, sufficient space must be available to assist compaction.

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

- Information on the safe handling, storage and disposal of chemical products, user is advised to refer to the most recent/updated *Safety Data Sheet, Method Statement Data Sheet, and Technical Data Sheet*, containing physical, ecological, toxicological and other safety/handling/storage related data.

CLEAN UP

- Wash hands and tools with ED super cleaner or any of ED recommended cleaning products promptly before the material hardens.

TECHNICAL SUPPORT

AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) ltd provides a technical advisory service supported by a team of specialists in the field.

STORAGE AND SHELF LIFE

- EDEN PVC WATERSTOP can be stored 12 months minimum from date of production if stored properly in original, unopened and undamaged / sealed packaging.
- EDEN PVC WATERSTOP is supplied in 5kg, & 20kg buckets.
- Storage area should be in dry conditions and product kept in original packaging at temperatures between +5 °C and +30 °C.
- Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.

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TECHNICAL PROPERTIES

<i>Packaging</i>	25 lm	<i>Roll</i>
<i>Shelf life</i>	12 months minimum from date of production	<i>If stored properly in original, unopened and undamaged sealed packaging.</i>
<i>Appearance</i>	Rubbery & Flexible	<i>Blue</i>
<i>Shore A Hardness</i>	75±5	<i>(TSE 3078 – ASTM D 2240)</i>
<i>Density</i>	1.25 g/cm ³	<i>(TSE 3078 – ASTM D 792)</i>
<i>Tensile strength</i>	(+) 15 N/mm ²	<i>(TSE 3078 – ASTM D 412)</i>
<i>Hydrostatic Head</i>	Up to 10m head	
<i>Tear Strength</i>	~19 N/mm ²	<i>(ASTM D 624)</i>
<i>Water Absorption</i>	1.5% max. in weight (24 hours)	<i>(TSE 3078 – ASTM D 412)</i>
<i>Elongation</i>	300%	<i>(TSE 3078 – ASTM D 412)</i>
<i>Swelling Pressure</i>	≤ 15 bars	<i>after 3 days stored in tap water</i>

APPLICATION INFORMATION

<i>Over lapping</i>	3" (inches) (welding joints is strongly recommended)	<i>Minimum</i>
<i>Adhesion</i>	Heating and joining end to end	<i>By welding</i>
<i>Consumption</i>	According to the linear meter supplied	<i>Excluding joint welding losses</i>

HEALTH & SAFETY

- ⚠ Please ensure that proper PPE are worn during installation.
- ⚠ Welding should be done in ventilated areas.
- ⚠ Standard safety procedures should be duly observed.
- ⚠ Please consult current MSDS for product.
- ⚠ *For Professional Use only.*

ADDITIONAL INFORMATION

AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) Ltd manufactures a complete range of construction chemical products which include:

- ⚠ Cementitious Waterproofing membrane
- ⚠ Acrylic Waterproofing membrane

- ⚠ Polyurethane Waterproofing membrane
- ⚠ Bituminous Waterproofing membrane
- ⚠ Flooring solution
- ⚠ Damp-Proofing products
- ⚠ Repair and refurbishment systems
- ⚠ Water-stop
- ⚠ Cleaning agent
- ⚠ Bonding agent
- ⚠ Decorative / Repair mortars
- ⚠ Tile adhesive and grouts

For more information on any of our products, please contact AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) global or regional office.

LEGAL NOTE

Details contained in this Technical Data Sheet is provided in good will based on the experience and knowledge of the products been stored, handled and applied properly under normal conditions. That client will be responsible to duly follow all instruction written herein. However, Whilst Aise-Ohis Eden Construction (Chemicals) Limited endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. Therefore, user is mandated to check/test product's suitability for the intended application and purpose. Aise-Ohis Eden Construction (Chemicals) Limited 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.

