

# TRI-WATER STOP

**PVC water stop .**

## Description

**TRI-WATER STOP** Flexible PVC water stop to seal Construction and expansion joints in concrete structures.

**TRI-WATER STOP** is available in different sizes and types depending on their use.



## Standard compliance

- ASTM (D-412)
- ASTM (D-624)

## Typical uses

**TRI-WATER STOP**: is used to seal construction and expansion joints in water retaining structures such as :-

- Reservoirs
- Water tanks
- Sewage tanks
- Dams
- Spillways
- Swimming pools

## Advantages

- High quality PVC for long durability.
- Resistant to high water pressure.
- Available in different types and dimensions.
- Suitable for high water pressure.
- Easy to install (clip fastening), easy to weld on site.
- Many different sizes and types available, depending on their use

## Technical Data @°25c

Type	P.V.C.
Specific gravity	1.3 - 1.6
Elongation at break ASTM D412	300%
Service temp.	-35° C : +55° C
Tensile Strength	14.96 N/mm2
Tear Resistance	6.3 N/mm2
Shore A Hardness	75-85
Welding Temperature	~ 200°C.



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**Types & Dimensions of Tri –Water Stop**

Type	Product	Width (cm)	Roll Length (m)	Thickness (mm)	Max. Water head (m)
<b>V</b>	V 20 light	20	30	2-3	(from 15 m-to 30 m)
	V 20	20	30	4	(from 15 m-to 30 m)
	V 20	20	20	6	(from 15 m-to 30 m)
	V 24 light	24	30	2-3	(from 15 m-to 30 m)
	V 24	24	30	4	(from 15 m-to 30 m)
	V 24	24	20	6	(from 15 m-to 30 m)
	V 30 light	30	20	2-3	(from 15 m-to 30 m)
	V 30	30	20	4	(from 15 m-to 30 m)
	V 30	30	20	6	(from 15 m-to 30 m)
<b>O</b>	O 20 light	20	30	2-3	(from 15 m-to 30 m)
	O 20	20	30	4	(from 15 m-to 30 m)
	O 20	20	20	6	(from 15 m-to 30 m)
	O 24 light	24	15	2-3	(from 15 m-to 30 m)
	O 24	24	15	4	(from 15 m-to 30 m)
	O 24	24	15	6	(from 15 m-to 30 m)
	O 32 light	32	15	2-3	(from 15 m-to 30 m)
	O 32	32	15	4	(from 15 m-to 30 m)
	O 32	32	10	6	(from 15 m-to 30 m)

**Prepetition:**

- **TRI-WATER STOP** (different shapes and sizes) are installed prior to concrete placement to ensure proper positioning and concrete consolidation around the **TRI-WATER STOP** .
- Split formwork is generally required for slab-to-slab, slab-to-wall, and wall-to-wall joints
- During progress of work all TRI-WATER STOP should be protected from damage and should be free of oil, dirt and concrete spatter.
- **TRI-WATER STOP** coils should be uncoiled several days before installation to insure ease of installation and fabrication.
- Be sure steel reinforcing bars do not interfere with proper positioning of **TRI-WATER STOP** .



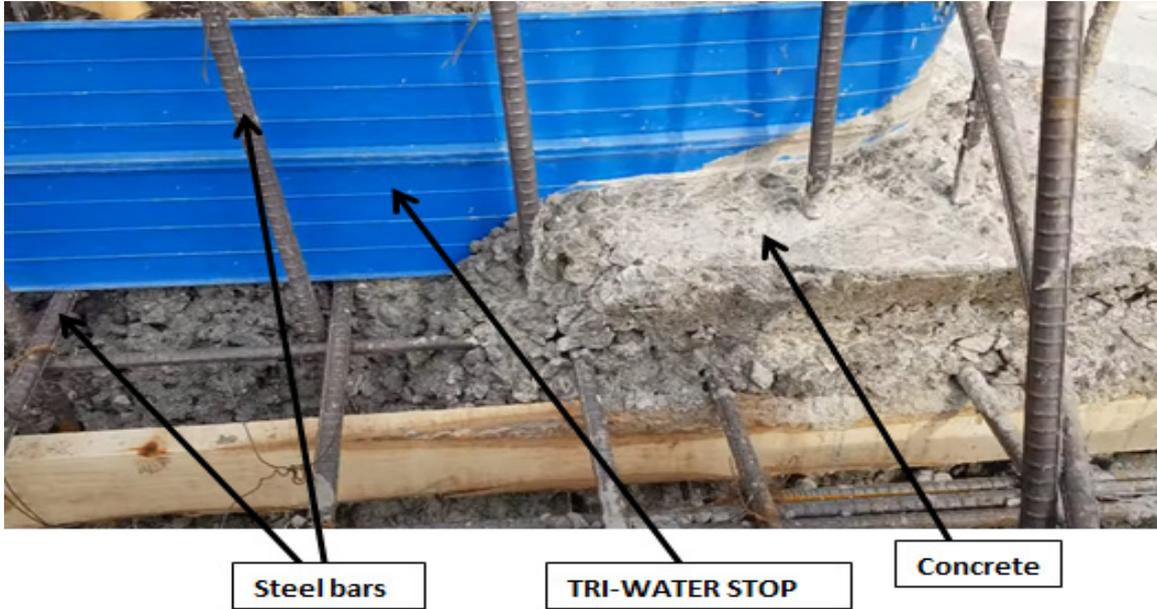
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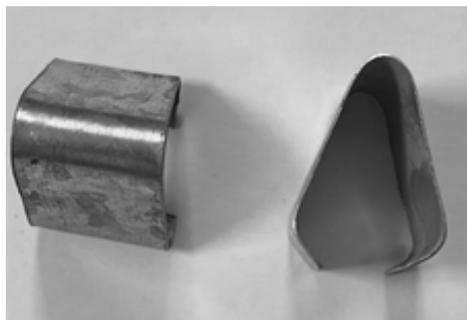
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**Installation:**



- The location and embedment of the **TRI-WATER STOP** should be determined by the use of the construction drawings of the project.
- Approximately one half of the width of the **TRI-WATER STOP** embedded in the concrete on each side of the joint.
- All **TRI-WATER STOP**s shall be sufficiently held in place to insure that they are correctly positioned to form a continuous watertight diaphragm in the joint unless otherwise shown
- The centerline of the **TRI-WATER STOP** should be aligned with the center of the joint.
- Size and style of the **TRI-WATER STOP** determine permissible variation from the centerline.
- Never place nails or screws through the body of the **TRI-WATER STOP**.
- Clips to reinforcing bar every 50 cm or fixed wire.
- Clips shall not penetrate the **TRI-WATER STOP**.



**TRI-WATER STOP Clips**

- **TRI-WATER STOP** should never be cut or modified to allow reinforcement to pass through the **TRI-WATER STOP**
- Protect installed **TRI-WATER STOP** from UV if the **TRI-WATER STOP** will be exposed for more than 30 days.

**PLACEMENT OF CONCRETE:**

- Care should be taken during concrete placement to prevent excessive movement of the **TRI-WATER STOP** to insure against displacement.
- The Split Form Should Firmly Hold The Water stop In Position To Prevent Misalignment Of The Water stop During Concrete Placement.
- A Tight Fit between the **TRI-WATER STOP** And the Form Is Also Necessary to Prevent Excessive Leakage of Concrete Paste, Which Could Lead to Honeycombing of the Concrete.
- Always thoroughly and systematically vibrate concrete around the **TRI-WATER STOP** to avoid air entrapment and to provide a positive contact between the TRI-WATER STOP and concrete.
- On the second pour, sweep horizontal joints to insure there is no foreign matter to interfere with positive contact between the **TRI-WATER STOP** and the concrete.
- For good performance for **TRI-WATER STOP** use kickers to support the good institution and connection between slab and wall.



**Kickers**



**Thermal welding of TRI-WATER STOP**

- **TRI-WATER STOP** is easily butt spliced with a thermostatically controlled **TRI-WATER STOP** welding iron equipped with a replaceable peel-and-stick Teflon cover.
- The ends of the **TRI-WATER STOP** must be cut square to form matching edges.
- Uniformly and simultaneously melt the **TRI-WATER STOP** ends at roughly 380°F using the **TRI-WATER STOP** welding iron.
- It is important to use an indirect source of heat for this procedure.
- Direct exposure to a flame will change the chemical composition of the PVC and result in a weak weld.

### Package

- **TRI-WATER STOP** : Rolls deepen on the thickness and the type

### Storage

- Store the material in a cool, covered dry place.
- Temperature not exceed 35 °C
- Do not expose the pails to direct sunlight and keep away from all sources of heat.

### Shelf Life

- The shelf life of the product is up to 24 months if stored as per recommendations.

### Technical support

- For any technical support, please contact TRI-CHEM technical office or representatives.

### Sustainability and environmental accountability

- TRI-CHEM's Environmental sustainability is the accountability to conserve natural resources and protect global ecosystems to support health and well-being for this a more positive approach is that accountability guides the actions of power-holders towards more socially and environmentally sustainable results.

### Health and safety responsibility

- Workplace health and safety is all about sensibly managing risks to protect TRI-CHEM's workers and business.
- ISO 45001 is a systematic health and safety management is characterized by strong leadership involving managers, workers, suppliers, contractors and customers and also health and safety management is an essential part of the movement towards sustainable development.
- Spillages should be washed down immediately.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.

### Institutional Excellence and quality performance

- Institutional excellence in TRI-CHEM refers to achieving high levels of performance, quality and effectiveness in all aspects of TRI-CHEM company's work, it involves a systematic and continuous effort to improve an organization's performance by applying best practices, innovative approaches and evidence-based strategies, institutional excellence spans various areas, such as training , research, innovation, community engagement, governance, management and sustainability, and involves setting high standards, measuring performance against these standards and continuously improving performance to meet or exceed these standards, excellence in TRI-CHEM also includes a culture of continuous improvement and learning, where everyone in the organization is committed to achieving the organization's goals, working together to find solutions to challenges and opportunities, and requires a collaborative approach that includes all stakeholders.
- All products originating from TRI-CHEM facility are manufactured under a quality management system independently certified to conform the requirements of the quality standards (ISO 9001:2015).

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### Disclaimer

- While TRI-CHEM guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.
- TRI-CHEM is recommended to verify with TRI-CHEM that the product is suitable for the intended use, and that this data sheet version is the latest one.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.
- Any specification, recommendation or information mentioned in this product data sheet is (to TRI-CHEM's best knowledge) true and reliable.
- However, because TRI-CHEM has no influence on the application method of these products and the care taken, the company cannot accept any liability arising from the use of its products. TRI-CHEM's warranty is therefore limited to the quality of the materials supplied which are guaranteed against defective materials.

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