

Product Description

HYPERGUARD is high performance PVC Waterstop strip which is made of premium quality thermoplastic resin resulting in high strength and durable end product. It is used for preventing water passage in concrete joint. Especially the joints where expansion, contraction and transverse movements are occurred, it is designed to effectively accommodate itself to movement. Dumbbell or flat profile is suitable for construction joints while center bulb is used in expansion joints where shear movement is expected. The hollow part in center bulb allows deformation when absorb shear movement.

Uses & Applications

HYPERGUARD is used by embedding it in concrete structures prior to pouring of concrete. Typical areas of use include:

- Swimming pool, water tank.
- Waste water tank, chemical treated water tank.
- Basement.
- Deck.
- Dam, water reservoir.
- Watergate.



Key Benefits

- High tensile strength.
- Excellent tear resistance.
- Resistance to hydrolysis.
- A variety of sizes available.
- Long life span.
- Dumbbell and center bulb profiles suitable for various applications.
- Withstanding shear movement and hydrostatic pressure.
- Weather and chemical resistance.

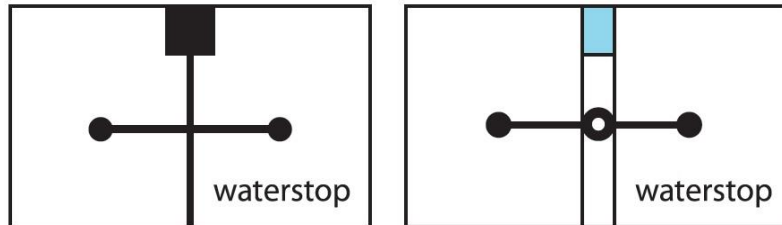
Technical Data

CHARACTERISTICS	RESULTS	TEST METHOD
Appearance	Black PVC Roll	-
Specific Gravity	1.3 – 1.5	ASTM D792
Hardness	75 ± 5	ASTM D2240
Tensile Strength	13 MPa	ASTM D412
Elongation	At least 300 %	ASTM D412
Water Absorption <i>at 50 °C for 48 hrs</i>	Less than 0.5%	ASTM D570

WATERSTOP PRODUCT

Application Instructions

- In the first pour of concrete, PVC waterstop is held in place along the length of the concrete structure.



Construction joint

Expansion joint

- To ensure waterstop secured centrally in the concrete section, steels wires and clips can be used and tied with reinforced bars.
- Pour the first concrete to the level of designated joint.
- Clean the concrete surface properly to ensure no loose material before second pour.
- The upper part of waterstop should be carefully protected from bending down during the second pour of concrete.
- Ensure that concrete is poured equally to the both sides of waterstop.
- Joining waterstop by melting the ends at $200\text{ }^{\circ}\text{C} \pm 10\text{ }^{\circ}\text{C}$ temperature generating from indirect heat source.
- Using a sharp knife to cut both ends straight and square to allow easy welding.

Hot air welding

- Place both ends together firmly. Apply hot air until the material begins to melt. Add PVC welding rod along the welding line. Ensure not overheat and burn the PVC. Do not pull or insert stress before material properly set.

Heat blade welding

- Place both ends along the heat blade. When plastic begins to melt, remove the blade and place the ends together in direct alignment and hold firmly in position until the plastic cool down. Do not pull or insert stress before material properly set.

Safety Instructions


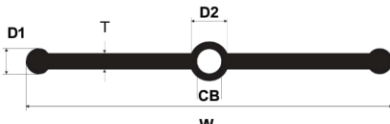
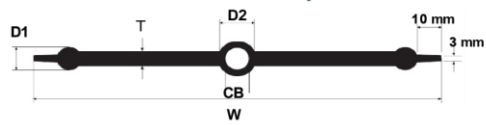
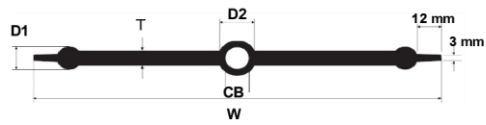

There is no known hazard associated with HYPERGUARD during normal use. Refer to material safety datasheet.

Storage

Product must be stored in-door at room temperature, avoid expose of direct sunlight.

Sizes & Profiles

WATERSTOP PRODUCT

PROFILE	MODEL	DIMENSION (mm)				
		W	T	D1	D2	CB
Dumbbell 	DB-6	152	5	12	-	-
	DB-8	203	5	12	-	-
	DB-10	255	5	16	-	-
	DB-12	305	5	16	-	-
	SDB-6	152	9.5	19	-	-
	SDB-8	203	9.5	19	-	-
	SDB-10	255	9.5	19	-	-
Dumbbell with center bulb 	CB-6	152	5	12	17	7
	CB-8	203	5	12	17	7
	CB-10	255	5	16	18	8
	CB-12	305	5	16	19	9
	SCB-6	152	9.5	17	20	7
	SCB-8	203	9.5	19	30	15
	SCB-9	229	9.5	17	27	17
	SCB-10	255	9.5	25	40	22
	SCB-12	305	9.5	25	40	22
	Dumbbell with center bulb / ribs & eyelets 	CBR-6	172	5	9	17
CBR-8		223	5	10	20	10
	CBR-10	279	5	16	23	13
	CBR-12	329	5	16	23	13
Rear guard 	RG-8	203	4.5	7	16	-

Standard length 25 meter per roll.

Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

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ISO 9001:2015 Certified