

## PRODUCT DESCRIPTION

SUPERSTOP SWB is made of high-performance TPE based hydrophilic rubber strips. The swelling action is the result of contact with water. Expansion of the waterstops creates a positive compression seal against the face of the concrete joint and prevents water entry into the structure through the protected joint.

## APPLICATIONS

SUPERSTOP SWB can be applied against existing concrete and simply installed by nailing or using a hydrophilic adhesive (TREM Grip SRA). In contact with water, hydrophilic polymers react and swell by  $\geq 400\%$  of the original dimensions to form an excellent compression seal.

- SUPERSTOP SWB strips are suitable for installation in low movement construction joints.
- SUPERSTOP SWB is used primarily for tunnels, Foundation wall slabs, slabs-on-grade, precast wall panels, manholes, pipe connections, box culverts, utility and wet walls, between old & new concrete and potable water tanks.

## FEATURES / BENEFITS

- Swelling properties are unaffected by long term wet / dry cycling
- Slow and controlled swelling
- Easy to handle. No split forming or no welding at site required.
- Works well with ground water and water with high salt and alkali content.
- The pressure exerted by the swelling will close all gaps in the concrete joint to block the water passage

## AVAILABILITY

Contact local StonCor Middle East sales representative.

## PACKAGING

20mm X 10mm X 5mtr – Roll

## SHELF LIFE

The product has a shelf life of 12 months when stored according to the recommended guidelines. Prolonged exposure to sunlight and UV radiation will degrade its quality and shorten its shelf life.

## PHYSICAL PROPERTIES

Property	Test Method	Typical Value	
Colour	-	Blue	
Type	-	TPE Based Hydrophilic Rubber	
Density	-	1.35 ± 0.05 gm/cm <sup>3</sup>	
Shore A Hardness	-	35 – 45	
Expansion Volume Rate	-	Tap Water	≥ 400%
		Salt Water	≥ 180%
Elongation at Break	ASTM D412	> 350 %	
Tensile Strength	ASTM D412	> 3.0 N/mm <sup>2</sup>	
Service Temperature	-	5 to 45 °C	

All values are subjected to 5% - 10% variations, tested under standard laboratory conditions.

### DIRECTIONS FOR USE

**Surface Preparation:** Clean all joints where SUPERSTOP SWB will be placed of all loose particles. The joints shall be smoothed, and all nail heads and concrete aggregates shall be removed to achieve a plain surface. Remove all traces of release agent and curing compound from concrete surface. Remove all standing water prior to the placement of the waterbar. Care should be taken however to ensure that the substrate has sufficient strength to enable a mechanical fixing element to be securely driven without damaging SUPERSTOP SWB.

**Sealing of Construction Joints:** SUPERSTOP SWB shall be placed in the center of the construction joint. SUPERSTOP SWB of the appropriate dimension shall be chosen as per the thickness of the concrete slab. Double layer of the waterbar is recommended for thicker walls. SUPERSTOP SWB can be applied and glued in place by recommended Tremco Adhesive (TREMGRIP SRA). On vertical surfaces, temporary support is required till the adhesive cures and gains strength to hold the water bar in place. The end laps can be joined together to ensure continuity. Prior to concrete the area around the water bar should be cleared of all debris. The minimum concrete cover should be 80mm.

**Sealing of Precast concrete elements:** SUPERSTOP SWB shall be applied to precast concrete elements in a notch which shall be made prior to the application of the water bar. Use TREMGRIP SRA as the adhesive to bond the water bar profile.

### LIMITATIONS

- Please refer to the relevant Product Application Manual.
- SUPERSTOP SWB should not be used in expansion joints, or any concrete sections of less than 150mm width. It should be installed with a minimum of 75-100mm clear cover from the face of concrete.

### HEALTH AND SAFETY

All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements. All the time refer SDS.

### TECHNICAL SUPPORT

Your local Tremco waterproofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.

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