

# Ozone Swell Bar RB

Rubber base water expandable swelling bar

## Description

The Ozone Swell Bar RB is a hydros swelling waterbar, ready for installation, to waterproof joints in concrete structures. The product is based on a special polymer technology that acts by swelling on exposure to water, to form a seal and render the joints leak-proof.

## Uses

Integral sealing for construction joints in concrete cast in-situ. Convenient and problem solving in situations where a conventional waterstop would require complex shuttering. Typical uses include secant piled and diaphragm walled basements, pile caps and casting against old concrete. Ozone Swell Bar RB can provide simple solutions to detailing pipe entries, construction joints in the vertical plane and to kicker joints. Can be linked to Ozone PVC Waterstopsto give an effective combination of waterstops which maintain network continuity.

## Advantages

- Water molecules held by molecular attraction captured water does not get transported through capillaries.
- The volume expansion effect is equally effective in fresh water so as in high salt content water (sea water, brackish water).
- Resistant to chemicals, solvents, fuels and oils.
- Controlled swelling – minimize the risk of damage to concrete.
- Does not form foam or gas with water – durable seal as no air bubbles can breakdown and allow leaks.
- Outstanding chemical resistance.
- Reversible swelling process.
- Resistant to micro-organisms formation.
- Can seal joints with up to 6 bars water pressure.

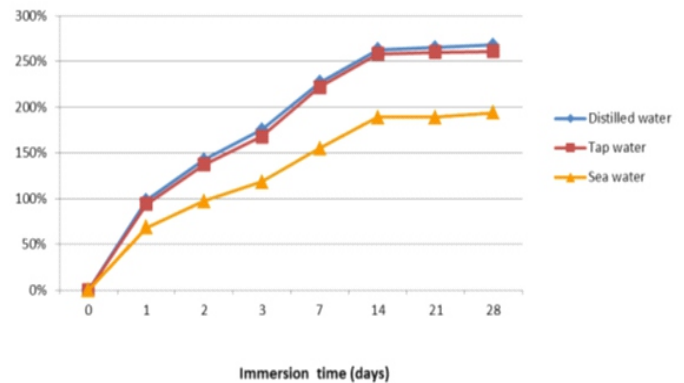
## Design criteria

Ozone Swell Bar RB should be used to prevent the passage of water through non-movement joints in both new insitu concrete and between new and existing concrete. Ozone Swell Bar RB increases in volume in the range of up to 300% and gives a resistance to hydraulic heads of up to 60 meters. Swelling of Ozone Swell Bar RB in fresh concrete is minimal, therefore maximizing the positive pressure to seal the Ozone Swell Bar RB is suitable for application between existing and newly placed concrete where there is little or no steel continuity and where up to 2mm movement may occur. Ozone Swell Bar RB waterstops should be positioned to ensure that a minimum of 80 mm cover of concrete is present to accommodate pressure developed during the swelling process.

## Properties

Form:	Blue / Black
Rectangular stripsSize :	10mm x 20mm
Solids content :	100%
Unrestrained volumetric expansion :	Up to 300%
Application temperature range :	-20° to 50°C
Service temperature range :	-30° to 70°C
Hydrostatic pressure resistance :	60 meters (6bar)

Volume expansion (%)



## Instructions for use

Ozone Swell Bar RB may be positioned by bonding with an appropriate adhesive. The water stop may be installed either into a groove cast in the concrete or directly onto the concrete surface.

## Installation

Ozone Swell Bar RB has to be fully bonded to the prepared base using the hydros swelling paste. Other rigid adhesives might limit the expansion of the Ozone Swell Bar RB. Apply the gun grade hydros swelling paste along a strip where Ozone Swell Bar RB will be installed and to a width slightly larger than waterbar.

## Limitations

Ozone Swell Bar RB should not be used for expansion joints or those subject to significant repetitive movements. Ozone Swell Bar RB should not be installed with less than 80 mm of concrete cover to ensure that the pressure arising from the swelling action is accommodated. Ozone Swell Bar RB should not be used in conjunction with air-entrained concrete. Ozone Swell Bar RB should not be used in locations which allow free unrestrained swelling.

## Supply

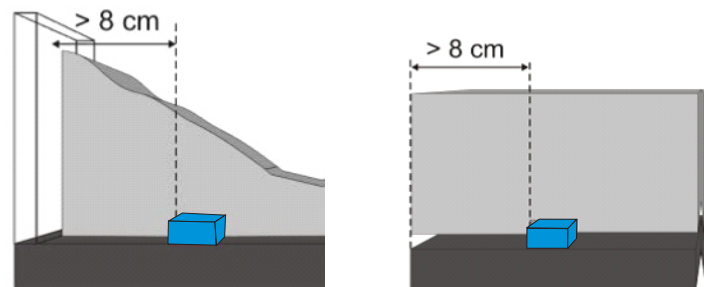
Ozone Swell Bar RB : 20mm x 10mm & 20mm x 5mm Rolls

## Storage:

Store in dry and cool place below 35 C. Protect from direct sunlight.

## Health & safety

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.



**WARRANTY:** Ozone products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale. Ozone makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Ozone product fails to conform with this warranty, Ozone will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made period from the date of the claimed breach. Ozone does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ozone's installation information or instructions in its product literature or on its packaging labels. The user of the Ozone products must test the products for suitability for the intended application and purpose before proceeding with the full application of the products.