

# HYDROJOINT SL

## Thermoplastic Swellable Reversible Joint Water Stop

### Description:

HYDROJOINT SL hydrophilic, thermoplastic elastomer expansive waterstop for the sealing of concrete construction, concrete-steel joints and underground precast elements. HYDROJOINT SL is standard delivered with a swell retardant coating.

HYDROJOINT SL expands gradually in contact with water, and reverse the action to be back to original size in dry moisture free conditions, the cycle repetition does not affect the performance of HYDROJOINT SL.

### Applications:

HYDROJOINT SL formulated to seal concrete construction joints as these joints tend to show fine cracks or cavities during the natural curing process. This could cause water to infiltrate into the concrete.

In contact with water, HYDROJOINT SL swell joints will swell up to 320% of its initial volume and make the construction waterproof. Also cavities and fine cracks are efficiently sealed. HYDROJOINT SL is glued with polyurethane glue for levelling and gluing purposes.

### Advantages:

- Reversible expansive properties in contact with fresh and salt water.
- Safe and easy installation with nails (25 cm interval) or a PU based adhesive glue.
- High flexibility and swelling capacity ensure absorption of movement in the construction.
- High capacity expansion and reversed action.
- Non-toxic.
- Good chemical resistance to range of chemicals and hydrocarbons.

### Instructions for Use:

#### Surface Preparations:

All surfaces should be sound, clean, dry and free from loose material, load bearing, laitance, curing compounds, dirt, oil and grease, level the area of application for a strip of 3 cm along the casting area to allow proper installation of HYDROJOINT SL.

#### Application:

HYDROJOINT SL can be glued to the prepared surface with a proper polyurethane glue, apply the glue to the concrete then place the swellable water stop to the glue and push gently, allow straight application, allow clearance at least 8 cm from both sides of form work, to allow for the expansion of the water stop. Do not start concreting until the glue dries (6 hours).

Nailing can be an alternative method of fixing the swellable water stop, nail the strip each 25 cm interval. To connect two strips Butt-joint the two sided to join into integrated water stop and avoid gaps.

While casting concrete, avoid for vibrator needle to be straight on the swellable water stop.

### Standards:

HYDROJOINT SL confirms to:

- ASTM D792, ASTM D471, ASTM D412, ASTM D2240

### Packaging:

HYDROJOINT SL is available in:

20 x 5 mm      40 LM roll      4 roll per carton

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## Storage:

HYDROJOINT SL stored in original packing in dry conditions, controlled temperature less than 30°C away from direct sunlight and high humidity levels.

### TECHNICAL PROPERTIES

Basis	:	TPE (Thermoplastic elastomer)
Color	:	Red
Density	:	1.25 Kg/dm <sup>3</sup>
Swelling Capacity	:	50% after 2 hours 450% after 24 hours 850% after 8 days
Tensile Strength	:	1.2 Mpa.S
Expansve pressure	:	1.05 N/mm <sup>2</sup>
Toxicity	:	None
Reaction to fire	:	Class E to DIN EN 13501-01
Hardness shore D	:	Hardness: 50
Expansion in salt water with 5 % NaCl in room temp.	:	225 % after 30 days 210% after 15 days
Installation Temp.	:	-15°C to 50°C
Reaction to fire	:	Class E to DIN EN 13501-1

## Shelf Life:

2 years when stored in dry, frost free in the original unopened packaging protected weathering.

## Health & Safety:

Protective clothing such as gloves should be worn during installation. Should the product be accidentally swallowed, do not induce vomiting; rather seek for an immediate medical assistance. Wash hands with soap and water after working with this material.

## Recommendation:

- It is essential to store the waterstp in dry, covered store.
- Waterstops must lie flat and planar on the concrete. There must be no contaminants beneath the waterstop.
- Protect the waterstop form moisture until the concrete is poured.
- Before commencing the concreting process visually inspect the waterstop. Heavily swollen waterstop tape is unsuitable and must be removed.
- Waterstops are not suitable for movement joints.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.



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