



# **SpECTite** Swellseal Polybar

POLYMER BASED HYDROPHILIC WATERSTOP – SALINE GRADE

## DESCRIPTION

**SpECTite Swellseal Polybar** is a hydrophilic waterstop based on synthetic rubber for use in construction joints subject to saline water penetration. **SpECTite Swellseal Polybar** exhibits good resistance to a wide range of chemicals (see Chemical Resistance below) and presents a unique characteristic of swelling many times its dry volume when in contact with ground/saline water to form an impenetrable gel capable of resisting hydrostatic pressures of up to 60 meters.

## TYPICAL USES

**SpECTite Swellseal Polybar** is a very effective waterstop seal in the following situations:

- Construction joint
- Pipe and cable penetrations
- New to existing concrete
- Sealing irregular concrete surfaces

## ADVANTAGES

- Quick and easy to install – does not require special intersections, on-site welding or jointing.
- Suitable for ground/saline water conditions.
- Good chemical resistance
- Supplied in 2 sections depending on the size of the structure (see Sizes & Packaging below).
- Safe and odour-free
- Totally flexible
- Surface fixed - no pre-formed chases required
- Seals localised honeycombing and minor fractures

## TECHNICAL DATA

<b>Specific gravity @25° C</b>	1.64
<b>Resistance to hydrostatic pressure</b>	6 bars
<b>Swelling capacity (3.5% saline solution)</b>	140%
<b>Hardness - Shore A</b>	25
<b>Tensile Strength</b>	3Mpa

<b>Elongation</b>	400%
<b>Service temperature</b>	-20°C to +75°C
<b>Bending radius at corners</b>	50mm
<b>Colour</b>	Orange

## Chemical Resistance

Resistant to a wide range of common chemicals. For fuels, oils and solvents, please contact SPEC Technical Department

## APPLICATION

### Surface Preparation

All surfaces to which **SpECTite Swellseal Polybar** is to be applied should be clean and free of standing water. Any loose or flaking concrete must be removed. (The preferred practice of scabbling joints is recommended).

### Application

Uncoil a length of **SpECTite Swellseal Polybar** and apply onto the concrete surface, noting that it must be positioned inside the reinforcement cage with a minimum concrete cover of 75mm.

Press **SpECTite Swellseal Polybar** firmly into place to ensure it covers any surface undulations.

In vertical installations work from the base up to prevent any deformation or elongation.

### Jointing

Cut the ends of adjoining lengths of **SpECTite Swellseal Polybar** with a sharp tool to ensure a clean and square cut and press together for a close butt joint. Do not overlap.

### Fixing

Fix **SpECTite Swellseal Polybar** in place using nailing guns, with nails at 300mm spacing approximately.

Where **SpECTite Swellseal Polybar** is to be installed on metal or plastic pipes, this can be achieved with a good quality contact adhesive.

Do not use any damaged, deformed or swollen bars.

#### **WATCH POINTS**

- **SpECTite Swellseal Polybar** must be confined within a concrete joint and not applied to exposed surfaces.
- Exposed lengths of **SpECTite Swellseal Polybar** should be kept dry prior to concreting. Any pre-hydrated material should be replaced with new material.
- **SpECTite Swellseal Polybar** should not be used in expansion or movement joints.
- Where **SpECTite Swellseal Polybar** is to be used in areas subject to hydrocarbon contamination, use of **SpECTite PVC Waterstops** would be recommended.

#### **APPLICATION TEMPERATURE RANGE**

0°C to 50°C

#### **PACKAGING**

**SpECTite Swellseal Polybar** is supplied in 2 standard sizes:

- Size 20 x 10mm x 5m long for structures up to 150mm thick.  
A cardboard box contains 9 x 5m coils.
- Size 20 x 20mm x 5m long for structures over 150mm thick.  
A cardboard box contains 9 x 5m coils.

#### **STORAGE AND SHELF LIFE**

**SpECTite Swellseal Polybar** has a shelf life of 2 years when stored off the ground in a cool and dry environment, away from sunlight.

#### **HEALTH AND SAFETY**

**SpECTite Swellseal Polybar** is an irritant on contact with skin, mouth and eyes. Use protective gloves, goggles and clothing when handling the product.

**Skin contamination:** Wash with plenty of soap and water.

**Eye contact:** Irrigate with plenty of water and seek medical advice if irritation persists

**Ingestion:** In the unlikely event of ingestion, seek immediate medical advice; do not induce vomiting.

For further information please refer to the MSDS.

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#### **SPECIALITY ENGINEERING CHEMICALS**

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696  
E-mail: [info@spec.ae](mailto:info@spec.ae)  
[www.spec.ae](http://www.spec.ae)