

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

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

Elongation	400%
Service temperature	-20°C to +75°C
Bending radius at corners	50mm
Colour	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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