

# SpECTite Swellseal Bentobar

BENTONITE BASED HYDROPHILIC WATERSTOP – SALINE GRADE

## DESCRIPTION

**SpECTite Swellseal Bentobar** is a hydrophilic waterstop made with sodium bentonite and butyl rubber for use in construction joints subject to saline water penetration. **SpECTite Swellseal Bentobar** 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 40 meters.

## TYPICAL USES

**SpECTite Swellseal Bentobar** 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.
- 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>	1.43
<b>Resistance to hydrostatic pressure</b>	4 bars
<b>Swelling capacity (3.5% saline solution)</b>	180%
<b>Service temperature</b>	-20°C to +75°C
<b>Bending radius at corners</b>	50mm
<b>Colour</b>	Red

## APPLICATION

### Surface Preparation

All surfaces to which **SpECTite Swellseal Bentobar** 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 Bentobar** 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 Bentobar** 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 Bentobar** 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 Bentobar** in place using nailing guns, with nails at 300mm spacing approximately.

Do not use any damaged, deformed or swollen bars.

## WATCH POINTS

- **SpECTite Swellseal Bentobar** must be confined within a concrete joint and not applied to exposed surfaces.
- Exposed lengths of **SpECTite Swellseal Bentobar** should be kept dry prior to concreting. Any pre-hydrated material should be replaced with new material.

- **SpECTite Swellseal Bentobar** should not be used in expansion or movement joints.
- Where **SpECTite Swellseal Bentobar** is to be used in areas subject to chemical contamination, use of **SpECTite Swellseal Polybar** would be recommended.

#### **APPLICATION TEMPERATURE RANGE**

0°C to 50°C

#### **PACKAGING**

**SpECTite Swellseal Bentobar** is supplied in standard size coils of 20 x 25mm x 5m long. A cardboard box contains 6 x 5m coils.

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

**SpECTite Swellseal Bentobar** 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 Bentobar** does not contain hazardous materials. For general safety, use protective gloves and goggles 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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