



URS is a member of Registrar of Standards (Holdings) Ltd.



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

| | |
|---|----------------|
| Specific gravity @25°C | 1.43 |
| Resistance to hydrostatic pressure | 4 bars |
| Swelling capacity (3.5% saline solution) | 180% |
| Service temperature | -20°C to +75°C |
| Bending radius at corners | 50mm |
| Colour | 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.

Issue 1: 06/2014

QA-054

Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

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

www.spec.ws
"Printed on Recycled Paper"