

Core Swell Bar

Self-Levelling Polyurethane Flooring
(Elastic, Chemical-Resistant)



Description

CORE SWELL BAR is a hydrophilic polymer based waterstop, ultra thin profiled, reswellable, polymer based on the latest Hybrid Technology to overcome problems commonly occurs with Bentonite based & PVC Waterstop during fixing & concrete pouring. CORE SWELL BAR is used for sealing purposes in civil engineering, structural engineering as well as tunneling for water pressure up to 5bar.

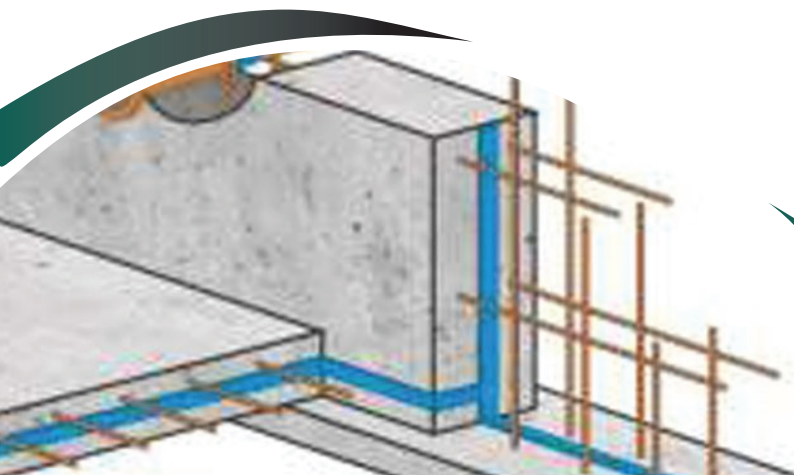
CORE SWELL BAR has a three dimensional polymer structure, which is built up from chemically resistant unstructured Polyurethane chains (macromolecules). The linkage of the polymer chains which is resistant to micro-bacterial attack.

The swelling ability happens due to hydrophilic polymer resin, which can expand in contact with water up to 750% to 800% from its original volume and have capacity to swell and shrink during repeated wet/dry cycles.

CORE SWELL BAR is safe and environmentally friendly material suitable for use in potable water tank, water retaining structures to be used for sealing of construction joints, restoration of expansion joints, sealing of precast concrete segments, sealing of tubing part in tunneling, proofing of shafts and pipe penetrations.

Recommended Uses

- Water Tanks and Reservoirs
- Waste Water Treatment Structures
- Sewage Treatment
- Structures / Concrete Pipes
- Swimming Pools
- Cast in Place and Segmental Tunnels
- Dams
- Basements
- Pile Caps / Secant Pile Walls.



SERVICES

Cementitious coating

Crystalline Coating

Addmixture

Sealant

Grout

Epoxy primer

Repair Mortar

Flooring

PU flooring

PU coating

Bitumen Coating

Latex

Waterstopper

Swell bar

Technical Data

Storage	Cool and dry in the original packaging up to 24 months.
Color	Blue (other colors available upon request)
Density	Approx. 1.0 gr/cm ³
Hardness	Approx. 3.8 (Shore A type)
Tensile Strength	Approx. 1.5 MPa – 2.1 MPa
Elongation	Approx. 490 % - 770 %
Hydrostatic Pressure	Approx. >50m (5bar)
Swelling Percentage	Approx. 750% - 800% by volume.
Swelling Retarding	Yes
Profile Types	Rectangle and Box profile.
Sizes	5*18mm; 10*20 mm
Packaging	7*15 Mtr. Roll / Carton (Other Packing also available).

Important Information

Supplied in: 25 kg bag

Storage: Store dry, frost-free, out of direct sunlight

Shelf Life: 6 months in original packaging

Safety: Use gloves/eye protection; see MSDS

Application Guidelines

Substrate Preparation

Ensure the surface is free from cavities, cracks and gravel pockets. Rough surfaces should be smoothed before priming or nailing the profile.

Application – Sealing of Construction Joints

Place the CORE SWELL BAR profile in the centre of the reinforcement or at least 10 cm away from the side exposed to water. It can be installed by fully adhering with primer or by nailing onto the concrete substrate. Ensure the profile cannot shift during concreting.

Application – Sealing of Precast Segments

For sealing precast concrete elements, create a notch in the segments so that the chosen profile is pre-stressed during assembly. Proper plugging can be achieved with mounting cement such as POLYQUICK FS or a permanently elastic sealant such as POLYSEAL PP.

Storage & Shelf Life

Store all material between 10–25 °C in a cool, covered, dry place. Do not expose containers to direct sunlight and keep away from heat sources. In tropical climates store in an air-conditioned environment and protect from high humidity. Shelf life is 24 months in unopened containers if stored as recommended. Exposure to high temperature and humidity will reduce shelf life.

Health & Safety

As with all construction chemical products, exercise caution during use. Wear protective clothing such as gloves and goggles. Treat any splashes to the skin or eyes with fresh water immediately and seek medical advice. If swallowed, do not induce vomiting; call for medical assistance immediately.

Information herein reflects Core Chemicals' current knowledge and assists specifiers and contractors. It does not replace project-specific trials to confirm suitability. Values are typical under standard conditions; site results may vary. Recommendations are offered in good faith without warranty, as conditions outside our control can affect performance. Core Chemicals may revise specifications without notice. Users are responsible for compliance with applicable standards and regulations. Technical assistance is available on request.

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