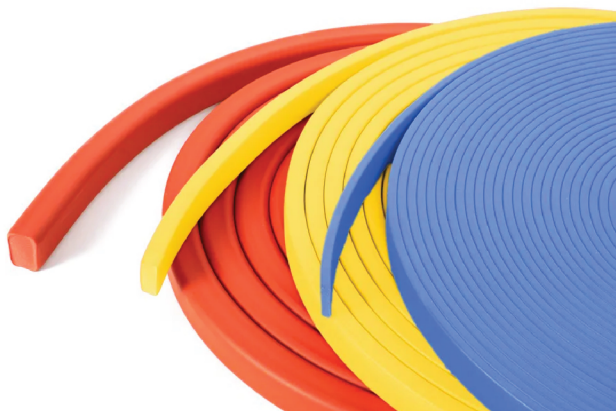




XEAL SB

Technical Datasheet



Xeal SB is a synthetic rubber-based, water-swelling bar free of bentonite and formulated with a fully acrylic polymer. Compared to traditional water bars, it offers superior tensile strength, greater elasticity, excellent resistance to deformation and erosion, an extended shelf life, and reduced weight.

Application: Installed in concrete construction joints, Xeal SB remains dormant until it encounters leak-water post-construction. Upon contact, it swells at the joint center to form an effective barrier against ingress.

Swelling Mechanism: Hydrophilic agents within the polymer matrix absorb water and trigger expansion. This growth generates positive pressure against the concrete faces, sealing the joint and preventing further leakage.

Performance: Xeal SB can swell up to 600 % of its original volume when submerged. A hydrophilic monomer coating delays premature expansion, enhancing the seal's reliability. The compound endures repeated wet/dry cycles without hardening, ensuring long-term watertight performance.

STORAGE

- Store in a cool and dry place in the original packing to prevent from moisture and premature swelling.

PRECAUTIONS

- Use gloves to avoid rare allergic reactions.
- Do not reuse cartons for storage of consumable item.

INSTALLATION

- ▶ Ensure surface is clean and dry.
- ▶ Center the bar in the joint; secure with nails, hooks, or adhesive.
- ▶ Overlap ends by ≥ 10 cm.
- ▶ Keep dry during installation to prevent early swelling.

SURFACE PREPARATION

- ▶ Substrate must be clean, dry, and free of moisture, ice, oil, or dust—avoid wet weather.
- ▶ Firmly press the waterstop onto the concrete; for vertical/overhead areas, hold for ≥ 15 s.
- ▶ Ensure full coverage, even over irregular surfaces.
- ▶ Fix in place using silicone-based adhesive or nails.

TECHNICAL SPECIFICATIONS

USAGE	CONCRETE FILLING AND JOINTING
Form:	Rectangular section elastomeric Strips
Sizes Available: (Other sizes on request: Yes)	20 mm x 10 mm 20 mm x 5 mm 25 mm x 20 mm
Colour:	Black/Red/Blue (Other Colours Available)
Unrestrained volumetric Expansion ratio:	Up to 650%
Application temperature Range:	-30°C to 80°C
Service temperature Range:	-30°C to 80°C

PHYSICAL PROPERTIES

TENSILE STRENGTH	13.2 KG/CM ²
Specific density	1.3 gm/cm ³
Hardness	40-50 (Shore A)
Elongation at break	320% min
Swelling rate	650% vol. in pure water & 180% vol. in sea water
Service temperature range	-30°C to 80°C
Change in volume	07 days in tap water $\geq 300\%$ 14 days in tap water $\geq 550\%$