



# ULTRA SWELLING BAR

## High Performance Hydrophilic Rubber Swelling Bar

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

### Description

Ultra Swelling Bar is made of bentonite free high performance polymer modified rubber strips. The swelling action is the results between water and hydrophilic groups which are part of the Ultra swelling bar molecular structure. Expansion of the waterstop creates a positive seal against the face of the concrete joint and prevents the water entry into the structure through the protected joint.

### Applications

Hydrophilic waterstop can be applied against existing concrete and are simply installed by nailing or using a hydrophilic adhesive. In contact with water, hydrophilic strips react and swell to form a compression seal.

Hydrophilic strip[s] are suitable for installation in contraction and construction joints. Ultra Swelling Bar is used primarily for foundation walls slabs, slabs-on-grade, pre-cast wall panels, manholes, pipe connection , box culverts, wells , water tanks, basements, dams and all type of concrete joints.

### Advantages

- The Active protection-Ultra Swelling Bar hydrophilic waterstop swell in contact with water to form an effective compression joints
- Simple application and jointing techniques.
- Slow expansion rate to prevent damage freshly place concrete during curing.
- Retains original shape after repeated and contraction
- Swelling properties unaffected by long term wet/dry cycling.
- Sustain effective seal in wet conditions.

### Method of Installation

Ultra Swelling Bar can be installed either by suitable adhesive or mechanically by nails when using adhesive , extrude enough materials on a sound clean substrates and immediately fix firmly Ultra Swelling Bar into adhesive.

Also Ultra Swelling Bar can be fastened in place using masonry nails at approximately 300 mm centers. Care should be taken however to ensure that the substrate has sufficient strength to enable a mechanical fixing to be securely driven without damaging the Ultra Swelling Bar.

### Health and safety

There are no known hazards associated with Ultra Swelling Bar during normal use, Refer to product safety data sheets for detailed information

For further information refer to the material safety data sheet.

### Technical Properties (3 CV)

Color	Black, Blue or Red
Service temperature Range	-30 to 70°C
Shore A Hardness	40-50
Expansion Volume(fresh Water)	≥200%
Hydrostatic pressure resistance	>50 m (5 bars)
Size	5mm x 20mm 10mm x 20mm

Alternatively, a groove can be cast into concrete to facilitate application. Ultra Swelling Bar is suitable for use in most weather conditions, but heavy rain or prolonged immersion will cause premature swelling.

Should this occur, it will be necessary to allow it to dry out, or be dried with a hot air gun before concrete pouring takes place.



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