MITCHBAR 1020
Swellable Water Bar

Mitchell Construction Chemicals

DESCRIPTION

MITCHBAR 1020 is in the form of rubber strips and is made of high performance modified polymer materials. The swelling action is the result of the contact between water and hydrophilic groups which are part of the MITCHBAR 1020 molecular structure. Expansion of the water stop creates a positive seal against the face of the concrete joint and prevents the entry of water into the structure through the protected joint.

It has controlled expansion rate to prevent damage to freshly placed concrete. It retains original shape even after repeated expansion and contraction. The swelling properties are unaffected by long term wet/dry cycling and provides an effective water seal throughout the life of the structure.

ADVANTAGES

- Controlled expansion
- Active leakage protection
- Easy to install
- No need for heat jointing
- Simple butt jointing

USES

MITCHBAR 1020 can be applied against existing concrete and is simply installed by nailing or using a bonding adhesive. In contact with water, hydrophilic strips react and swell by up to 300% of their original dimensions to form a compression seal. Hydrophilic strips are suitable for installation in low movement construction joints as well. MITCHBAR 1020 is used primarily for foundation wall slabs, slabs-on grade, precast wall panels, manholes, pipe connections, box culverts, sewage and drainage structures, Tunnels, drinking water tanks and all other concrete structures where water tight joints are required.

SIZE

Strips of 20 mm x 10 mm. Supplied in Rolls.

SHELF LIFE

12 months, if stored in original containers away from sunlight and dampness.

TECHNICAL DATA

Appearance	Polymer rubber Strips
Color	Blue
Solid Contents	100%
Density (20°C)	1.20 g/cm^3
Service temperature	-35 - 55°C
Elongation	> 450%
Expansion volume rate	> 300%
Water pressure resistant	5 Bar
Resistant to saline water	Resistant

INSTALLATION METHOD

For effective and long term water protection, it is essential that concrete substrates have a minimum compressive strength of 20 N/mm^2 and have at least 75mm of concrete cover in all directions of the hydrophilic waterbar.
Ensure the concrete surfaces where MITCHBAR 1020 will be placed, are smooth, clean and free from contamination such as dust, oil, grease, and laitance.

Brush apply a thin film of adhesive onto the prepared substrate along the proposed line of the waterbar or use mechanical nail fixing for placing MITCHBAR 1020.
It is suggested to also apply a thin layer of adhesive to the side of water bar that will bond to the concrete. Wait for 5-20 minutes depending on the the ambient temperature, to allow the solvent to fully evaporate before firmly pressing the elements together to bond with the adhesive.
At corners and intersections, simply butt join the water stop together ensuring a tight joint between the profiles. No heat jointing is required for MitchBar 1020.

LG 08, Al Ghani Arcade, Main G.T. Road, DHA II, Islamabad,
(TEL):+92-51-4493348, +92-51-4493349 (Fax): +92-51-4493347
sales@mitchellpakistan.com, www.mitchellpakistan.com