



Doron Betonite Waterstop

(Bentonite Base Concrete Joint Expanding Waterstop)

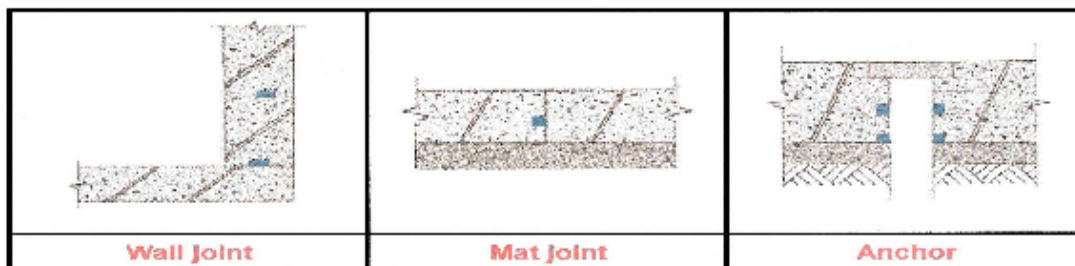
Description:

Doron Betonite Waterstop is a flexible strip concrete construction joint waterstop that provides a positive seal by gradually expanding when in contact with water. Bentonite Waterstop is an active bentonite based waterstop that is designed to replace conventional passive PVC dumbbell waterstop, thus eliminating the requirement of split-forming and product seam welding. The key to Doron Bentonite Waterstop effectiveness is its modified sodium bentonite content which provides superior expansion to seal and fill voids.



Application:

Doron Bentonite Waterstop applications include both vertical and horizontal concrete construction joints, new to existing construction, irregular surfaces, and around through-wall penetrations, such as plumbing and surfaces conduit. Doron Bentonite Waterstop is designed for both hydrostatic and non-hydrostatic condition. Typical applications include the following: Underground Structures, Tunnels Box Culverts, Retaining Walls, New to Old Concrete, Manholes, Poured in-Situ Construction Joints, Basements, above and below Grade Precast Panels and others. However, Doron Bentonite Waterstop is not designed, nor intended to function as an expansion joint sealant. Doron Bentonite Waterstop is manufactured in light weight, flexible coils that can be installed in both hot and cold weather. Coil end are butted together, not overlapped to form a continuous waterstop. In most applications Doron betonite Waterstop is installed to the interior side of the outer row of steel reinforcement to allow for sufficient concrete coverage. Doron Bentonite Waterstop should only be used in application where the product is completely encapsulated within the concrete. Doron Bentonite Waterstop is designed for structural concrete with a minimum of 3,000 psi compressive strength.



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Limitations:

Due to expansive forces, Doron Bentonite Waterstop should be both detailed and installed with a minimum 50 mm clear cover to the face of concrete. Expansion rate can vary in salt and contaminated water, Increase cover when using light weight, low strength concrete. Not for use where excessive shrinkage of the concrete may occur at the joint faces.

Customer Benefits:

- Eliminates split-forming, splices and welding thus saving time and labor cost.
- Active materials that seal small cracks and voids permanently.
- Flexible light weight product that contours irregular concrete and penetrations.
- No on-site welding required as with PVC waterstops.
- Non-toxic and requires no special handling.
- Unaffected by repeated wet and dry cycles.

Physical Properties:

DESCRIPTION	SPECIFICATION	RESULT
Colour		Black
Size		25mm x 19mm
Specific Gravity	ASTM D-71	1.40 / 1.45
Hydrocarbon Content	ASTM D-297	47%
Volatile Matter	ASTM D-6	1% max.
Penetration, Cone		
@ 77 F 150gm; 5 sec.	ASTM D-217	40 + 5

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HEAD PRESSURE		Tested to 60m
Application Temperature		-22 – 52 °C
Service Temperature Range		-34 - -82 °C

Health and Safety:

Doron Bentonite Waterstop is non-toxic and there is no known health hazard associated with its use.

Sizes:

¾ inches x 5 meters

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