

BigStop®

Expanding Concrete Joint Waterstop

DESCRIPTION

BigStop® is a specially formulated concrete joint waterstop consisting of a patented blend of butyl rubber and bentonite. BigStop utilizes the unique sealing properties of natural Wyoming sodium bentonite, a non-toxic, chemically inert clay, which can swell many times its dry volume when in contact with water to form an impenetrable gel. BigStop is designed for use in concrete construction joints and precast joints in greater than 350 mm in thickness.

Chemical Composition		
Material	Test Standard	Typical Value
Butyl Rubber	ASTM D297	24.9%
Bentonite	SS-S-210-A	75%
Volatile matter	ASTM D6	<1%

Note: Contains no asbestos fibers or asphaltics

Physical Properties		
Property	Test Standard	Typical Value
Dimensions		30 mm x 40 mm x 3 m
Specific gravity at 25° C	ASTM D71	1.57
Penetration	ASTMD217	5.5 - 8.5 mm
Flash point	ASTM D93-97	185° C
Max. head pressure	Hydrostatic Pressure Test	70 m (7 bar)
Free swell	Percent weight gain @ 7 days	130-270%
Flow resistance	20 mm overhead joint exposes to 57° C for 7 days	No flow
Storage life		1 year
Adhesion to concrete		Mechanical or adhesive
Application temperature range		-15° C to 52° C
Service temperature range		-40° C to 100° C

LIMITATIONS

BigStop must be confined within a structurally reinforced concrete joint or precast joint.

BigStop requires a minimum of 150 mm of concrete coverage on all sides.

Where BigStop is to be used in potentially contaminated groundwater, please consult CETCO.

If BigStop swells 1.5 times its original size prior to encapsulation by concrete, it must be replaced with new material.

BigStop is not designed for use in expansion or movement joints.

BigStop must not be submerged in water for any extended period prior to containment.

PACKAGING

Carton Quantity:	3 rolls (9 m)
Pallet quantity:	6 cartons (972 m)
20' Container quantity:	10 pallets (9,720 m)

August 2009 (Supersedes All Previous Versions)

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