



10.03 FAST SWELL BAR P 10/20

Hydrophilic Polymer Waterstop

PRODUCT DESCRIPTION

FAST SWELL BAR is a hydrophilic polymer based waterstop, ultra thin profiled, re-swellable, polymer based on the latest Hybrid Technology to overcome problems commonly occurs with Bentonite based & PVC Waterstop during fixing & concrete pouring. FAST SWELL BAR is used for sealing purposes in civilengineering, structural engineering as well as tunneling for water pressure upto 5bar.

FAST SWELL BAR has a three dimensional polymer structure, which is build up from chemically resistant unstructured Polyurethane chains (macromolecules).

The linkage of the polymer chains which is resistant to micro-bacterial attack.

The swelling ability happens due to hydrophilic polymer resin, which can expand in contact with water upto 750% to 800% from its original volume and have capacity to swell and shrink during repeated wet/dry cycles.

FAST SWELL BAR is safe and environmentally friendly material suitable for use in potable water tank, water retaining structures to used for sealing of construction joints, restoration of expansion joints, sealing of precast concrete segments, sealing of tubing part in tunneling, proofing of shafts and pipe penetrations.

OTHER AREA OF APPLICATION

- Water Tanks and Reservoirs
- Waste Water Treatment Structures
- Sewage Treatment Structures / Concrete Pipes

- Swimming Pools
- Cast in Place and Segmental Tunnels
- Dams
- Basements
- Pile Caps / Secant Pile Walls.

APPLICATION

Sealing of Construction Joints:

For the successful application of FAST SWELL BAR in construction joints, the profile has to be placed into the centre of the reinforcement or at least 10 cm away from the the side exposed to water. It has multi installation option, adhered fully using primer and can be nailed onto the concrete substrate. It has to be sure that the FAST SWELL BAR profile cannot change its position while concreting. The surface must be free from cavities, cracks, gravel pockets

The rough surfaces should be smoothened before priming or nailing of the profile.

Sealing of Pre Cast Segments:

It is used for sealing of precast concrete elements it is recommended to create a notch in the segments. The profile is chosen so that the elements create already at assembling a pre-stress. A proper plugging can be achieved with mounting cement like POLYQUICK FS or a permanently elastic sealant e.g POLYSEAL PP.

TECHNICAL DATA

Storage:	Cool and dry in the original packaging up to 24 months.
Color:	Blue (other colors available upon request)
Density:	Approx. 1.0 gr/cm ³
Hardness:	Approx. 3.8 (Shore A type)
Tensile Strength:	Approx. 1.5 MPa – 2.1 MPa



Elongation:	Approx. 490 % - 770 %
Hydrostatic Pressure:	Approx. >50m (5bar)
Swelling Percentage:	Approx. 750% - 800% by volume.
Swelling Retarding::	Yes
Profile Types:	Rectangle and Box profile.
Sizes:	5*18mm; 10*20 mm
Packaging:	7*15 Mtr. Roll / Carton (Other Packing also available).

CHEMICAL RESISTANCE

Classification:	+	Resistant
	+/-	Not resistant
Chemical Compound	Classi-fication	Limited resistant
		Remarks
Benzol alcohol	+/-	Resistant in case of accident for 72h chemical pollution
Ethylacetate	+	Accelerated expansion
Sea water 12 %	+	
Sea water 25 %	+	
Sulfuricacid 96%	-	
Petrol	+	
Disel Fuel	+	
Kerosine Jet fuel (Jet A1)		
Mineral oil 15W40	+	
O-Xylene	+	accelerated expansion
m-Xylene	+	accelerated expansion
Toulene	+	accelerated expansion
Ethylene glycol	+	
Acetone	+	Strong accelerated expansion
Ethanol	+	
Mathanol	+	
Ammoniac solution 32 %	+	
Sodium hydroxide solution 10 %	+	
2-Butoxy-ethanol	+	
n-Hexane	+	
Acetic Acid 96%	+	accelerated expansion

STORAGE & SHELF LIFE

Store all material between 10 – 25 deg C in a cool, covered dry place. Do not expose the containers to direct sunlight and keep away from all sources of heat. In tropical climate conditions, the product has to be stored in an air-conditioned environment and protected from high humidity. The shelf life of the product is 24 months in unopened condition if store as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

HEALTH & SAFETY

As with all construction chemical products caution should always be exercised whilst usage. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with freshwater immediately and seek medical advice. Should any of the product be accidentally swallowed do not induce vomiting, but call for medical assistance immediately.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to FAST Construction Chemicals ("FAST") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond FAST's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product.

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