

DR. FIXIT POLYBAR PLUS



HYDROPHILIC SWELLABLE WATER STOPPER FOR CAST IN SITU CONCRETE

Description

Dr. Fixit Polybar Plus - Hydrophilic water stop based on synthetic rubber that acts as a watertight sealing for construction joints with excellent swelling capabilities. The product retains its own shape after multiple dry-wet cycles. The product remains consistent in its performance throughout its life cycle and the flexibility allows it to fill voids and cracks in the immediate surrounding area.

Dr. Fixit Polybar Plus once come in contact with water will observe slow increase in volume which will cause the waterbar to profile itself into the gaps or cracks to fill cavities to ensure effectively stopping water seepage, even at high external water pressure.

Areas of Application

- Construction joints (Horizontal & Vertical)
- Kicker joints
- Pile Caps
- Diaphragm walls
- Pipe entries

Features & Benefits

- Easy & fast to apply by adhesive or nailing
- Consistence performance
- Unaffected swelling properties by long term wet/dry cycling
- Versatile solution for joints and detailing
- Performs effectively in saline ground water conditions
- Available in different sizes

Method of Application

- Clean the concrete area to remove any loose concrete, cement slurry etc.
- Water bar can be installed in a groove casted in concrete or directly on concrete surface.
- Fixing of Dr. Fixit Polybar Plus is recommended with Feviseal HY300 - High modulus hybrid sealant & adhesive. Alternatively, corrosion free nailing also can be adopted at approx. 300mm c/c.
- Product to be installed at center of construction joints by keeping minimum concrete cover of 80 mm.
- The product can be adhered to concrete, steel and PVC pipe penetrations with fixing glue.
- Swellable water should be installed in such a way that it has close contact with the concrete substrate to ensure full waterproofing effect.
- For thicker sections of walls 2 water bars can be installed to provide additional safety. (PI contact Pidilite Technical Service team for similar requirement).
- Water bars should be side lapped by minimum 20 mm at joints.

Precautions

- Dr. Fixit Polybar Plus should not be installed where free standing water is anticipated over the joints.
- Dr. Fixit Polybar Plus is not recommended for high movement joints i.e. expansion joints or isolation joints. PI consult Pidilite Technical service team for similar requirement.
- Water bar should not be used at joints where there is no concrete above water bar, which may lead to unrestrained swelling.
- Water bar should not be installed in walls where concrete cover is less than 80 mm, to ensure that pressure arising from swelling action is accommodated.



Technical Information

PROPERTIES	TYPICAL VALUES
Color	Red
Density	1.2-1.4 g/cc
Unrestrained volume expansion in normal water	300 %
Unrestrained volume expansion in 3 % salt water	150 %
Shore A Hardness	40 ± 5
Service Temperature range	-30 °C to +60 °C
Hydrostatic Head Resistance	6 Bar
Weather resistance	Excellent

Note : Testing duration of unrestrained volumetric expansion in normal and salt water shall be 14 days.

Limitations

1 Product is approved for uses only those specifically detailed in this product data sheet. Contact Pidilite Technical Services where any other use is anticipated or intended.

2 Technical properties may vary by 5% due to practical challenges like variation in type & quality of water, testing machines, rate of loading, sample preparation, thickness measurement and other manual errors. Contact Pidilite Technical services in such situations

Packaging

Dr. Fixit Polybar Plus

20 mm x 10 mm - 10 mtr roll (50 Rmt/cartoon)

20 mm x 5 mm - 10 mtr roll (50 Rmt/cartoon)

Feviseal HY 300 - 600 ml Sausage (Coverage : 8-10 Rmt/sausage depending upon surface profile)

Shelf Life

Dr.Fixit Polybar Plus products have a shelf life of 24 months if stored in cool and dry place in original packing to prevent from moisture and premature swellings.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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