



AL ZARINA
BUILDING SPECIALITY FZCO

POLYSTOPPER

PVC WATERSTOP MAKES CONCRETE JOINTS WATERTIGHT

DESCRIPTION

Polystopper are extrusions from high grade PVC resin that are plasticized and stabilized to offer long life performance in concrete structures against water leakages. Polystopper are hydrophobic in nature and resist water, all types of hazardous liquids and water borne chemicals. Polystopper profiles are designed that when embedded into the concrete joint, they form a continuous water tight diaphragm to prevent transmission of water through the joint.

Polystopper are manufactured in different thickness, width and profile types to suit various joints like contraction, expansion and construction joints. The selection of Polystopper is done based on the type and the expected movement of the joint together with the hydrostatic head pressure, the concrete structure is going to be subjected to.

PROFILES

Polystopper Internal Construction Joint (ICJ) is placed in the center of the concrete construction joint. Since this type of waterstop is embedded into the concrete, they are designed with two valves on either side of the center of the waterstop and multiple solid core ribs along the center and both the edges. These valves interlock the waterstop in the concrete thus providing a superior mechanical bond with the concrete. The ribs are designed with particular angle which anchors with the concrete and further reinforces the mechanical bond. In addition to that, angle in the ribs ensures a torturous path for the passage of water.

Polystopper External Construction Joint (ECJ) is used at joints of the slab on grade or walls that get backfilled on vertical walls. The profile of this waterstop is flat with multiple ribs and bulbs on either side of the center of the waterstop for better mechanical bond or interlock in the concrete.

Polystopper Internal Expansion Joint (IEJ) is placed in the center / internal section of the concrete expansion joint.

Polystopper External Expansion Joint (EEJ) is used in concrete expansion or isolation joints.

FIELDS OF APPLICATION

Polystopper are used in conjunction with expansion and construction joints in RCC structures like: Water Reservoirs & Storage Tanks, Retaining Walls, Basements, Foundations, Subways, Tunnels & Culverts, Drainage, Sewerage & Waste Water Structures, Treatment Plants, Swimming Pools, Dams & Canals.

TECHNICAL SPECIFICATION

Width (mm)	200, 225 & 250
Web thickness (mm)	4 & 10
Specific Gravity	≥1.32
Tensile Strength	≥15 BS 2782 (N/mm ²)
Elongation (%)	≥300 BS 2782
Shore A Hardness	80±5 ASTM D 2240
BS Softness	40-50 BS 2782
Resistance to water	Nil BS EN 12390 pressure @5bar
Water absorption (%)	0.2

PACKAGING

- 4 mm x 200 mm x 30 meter Roll
- 4 mm x 225 mm x 15 meter Roll
- 10 mm x 250 mm x 15 meter Roll

SHELF LIFE & STORAGE

Indefinite shelf life. Store the Polystopper in a cool and shaded area. Protect from UV and high temperatures. Prolonged exposure to sunlight and harsh environment will result in deterioration of the product. Keep away from sharp edges to prevent damage.

HEALTH & SAFETY

Polystopper is completely non-hazardous and non-flammable but care should be taken while cutting and welding joints. Working area should be properly ventilated during hot welding due to release of vapors.

The information given in this datasheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions, etc.

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