Hyperseal DP-2010

High performance hydrophilic waterstops

DESCRIPTION

Hyperseal DP-2010 is made of bentonite free high performance polymer modified chloroprene rubber strips. The swelling action is the result between water and hydrophilic groups which are part of the Hyperseal DP-2010 molecular structure.

Expansion of the waterstop creates a positive seal against the face of the concrete joint and prevents the water entry into the structure through the protected joint.

APPLICATIONS

Hydrophilic waterstop can be applied against existing concrete and are simply installed by nailing or using a hydrophilic adhesive. In contact with water, Hyperseal DP-2010 strips react and swell by more than 200% of their original dimensions to form a compression seal.

Hydrophilic strips are suitable for installation in contraction and construction joints. Hyperseal DP-2010 is used primarily for foundation walls slabs, slabs-on-grade, pre-cast wall panels, manholes, pipe connections, box culverts, utility and wet wells, and potable water tanks.

ADVANTAGES

» Active protection- Hyperseal DP-2010 hydrophilic waterstop swell in contact with water to form an effective compression joints.
» Simple application and jointing techniques.
» Slow expansion rate to prevent damage to freshly placed concrete during curing.
» Retains original shape after repeated expansion and contraction.
» Swelling properties unaffected by long term wet/dry cycling.
» Sustains effective seal in wet conditions.

METHOD OF INSTALLATION

Hyperseal DP-2010 can be installed either by suitable adhesive using Hyperseal DPS or mechanically by nails. When using Hyperseal DPS adhesive, extrude enough materials on a sound clean substrates and immediately fix firmly Hyperseal DP-2010 into Hyperseal DPS adhesive.

Also Hyperseal DP-2010 can be fastened in place using masonry nails at approximately 300 mm centers.

TECHNICAL PROPERTIES:

Service temperature range:	-30 to 70ºC
Shore A Hardness:	40 - 50
Expansion volume:	≥ 200%
Colour:	Black or blue
Hydrostatic pressure resistance:	> 50 m (5 bars)

Care should be taken however to ensure that the substrate has sufficient strength to enable a mechanical fixing to be securely driven without damaging the Hyperseal DP-2010. Alternatively, a groove can be cast into concrete to facilitate application.

Hyperseal DP-2010 is suitable for use in most weather conditions, but heavy rain or prolonged immersion will cause premature swelling.

Should this occur, it will be necessary to allow it to dry out, or be dried with a hot air gun before concrete pouring takes place. Hyperseal DP-2010 should not be used in expansion joints, or any concrete section of less than 150 mm width.

PACKAGING

Hyperseal DP-2010, (N) is available in 20 mm x 10 mm. (10 m x 10 roll/box).
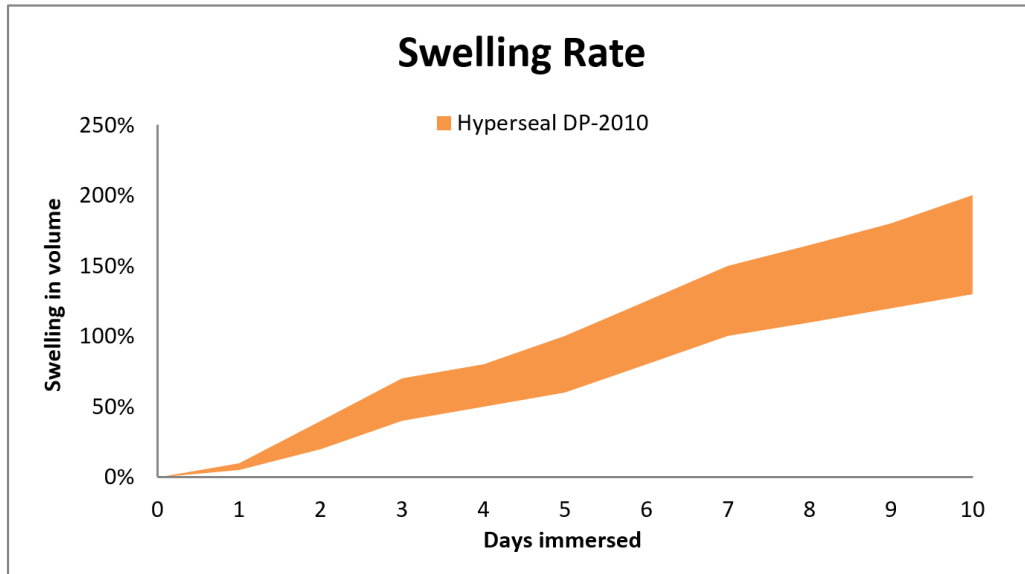
(N) Option: center stainless net insert.

STORAGE

Hyperseal DP-2010 has a shelf life of approximately 24 months from the date of manufacture when stored in original unopened packaging, in dry conditions, under cover, and out of direct sunlight, frost or weathering.

If these conditions are exceeded, contact DCP Technical Department for advice.

Swelling Rate

CAUTIONS

HEALTH AND SAFETY

There are no known hazards associated with Hyperseal DP-2010 during normal use.

For further information refer to the Material Safety Data Sheet.

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