Estop Hydrocell

Cross Linked, Non-Absorbent, Closed Cell, Polyethylene Joint Filler

Description

Estop Hydrocell is a cross linked, semi-rigid, closed cell polyethylene sheet material used for forming or filling expansion joints between adjacent in-situ and precast components. **Estop Hydrocell** provides excellent support backing to elastomeric sealants and is especially recommended for use in expansion joints in brickwork and in the construction of water retaining and excluding structures.

Estop Hydrocell has been tested by in accordance to ASTM D3575, on the Recovery, Compressive Strength and Water Absorption, and complied with the specification in this data sheet.

Uses

Estop Hydrocell is a particularly recommended for water retaining or excluding structure.

- Potable water reservoirs
- Culverts and canals
- Sewage tanks
- Roadways and hardstandings
- Retaining walls
- Basement structures and subways
- Runways, taxiways and aprons

Advantages

- Cross linked to resist lateral and hydrostatic pressure
- High density support of sealant to prevent adhesion failure
- Non-absorbent closed cell structure
- High recovery under compression
- Non-extruding
- Low load transfer to joint edges
- Non-tainting and rot proof
- Chemically resistant
- Bitumen free
- Natural bond breaker

Standards Compliance

- **ASTM D3575**
- **ISO 845**

Physical Properties

Recovery ASTM D3575	98% after 50% compression
Density (Nominal) ISO 845	110 kg/m^3
Compressive Strength ASTM D3575	0.15 N/mm^2
Water Absorption ASTM D3575	Less than 0.05% by volume
Weathering Test	No disintegration
Chemical Resistance	Excellent resistance to acids, alkalis, oxidising agents and biological degradation

Application Instructions

Joint Sealing Slots

When forming expansion joints with **Estop Hydrocell** in in-situ concrete, joint sealing slots can be readily formed in the following manner.

Before installing, simply cut off a strip to the required depth. Pin the strip back by using 50 mm nails at approximately 100 mm intervals. Then install the filler flush with the finished surface.

Prior to sealing, the top strip can then be pulled easily from the joint to provide an uncontaminated sealing slot ready for preparation and sealing.

As elastomeric sealants will not bond to **Estop Hydrocell** the additional need for bond breaker strips is eliminated.

Limitations

Estop Hydrocell should not be used when the operational temperature is continuously outside the range of -70°C to 100°C.

Estimating

Estop Hydrocell is supplied in the following sheet sizes and can be easily cut to the required size with Stanley knife or saw.

10 mm × 1200 mm × 1850 mm

15 mm × 1200 mm × 1850 mm

20 mm × 1200 mm × 1850 mm

25 mm × 1200 mm × 1850 mm

Technical Support

Estop offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estop Hydrocell should be stored in a clean area and should not be left exposed to direct sunlight for long periods, especially in hot climates.

Precaution

There are no known health hazards associated with **Estop Hydrocell** in normal use.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

Important Note