Estocell

Bitumen Impregnated Fibre Board

Description

Estocell is a compressible, bitumen impregnated fibreboard, supplied in sheet form. It is used to form and fill expansion joints between in-situ and precast concrete construction.

Uses

Estocell is a compressible joint filler suitable for forming joints between in-situ and pre-cast concrete components.

It is used to form structural expansion and separation joints in:

- Concrete roads, ramps and runways
- Bridges and pedestrian areas
- Concrete pavements and floors
- Building basement structure and subways
- Concrete retaining walls

Advantages

- Simple and easy to handle and install
- Will not extrude under compression
- Resilient
- Economical

Standards Compliance

- ASTM D545
- ASTM D1751 – 99

Physical Properties

| Property                  | Value                     
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Form</td>
<td>Compressible Sheet</td>
</tr>
<tr>
<td>Compression, MPa</td>
<td>0.69 – 8.62</td>
</tr>
<tr>
<td>ASTM D545</td>
<td></td>
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<tr>
<td>Recovery, %</td>
<td>&gt; 70</td>
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<tr>
<td>ASTM D545</td>
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<tr>
<td>Loss if Weight, %</td>
<td>&lt; 3.0</td>
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<tr>
<td>ASTM D545</td>
<td></td>
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<tr>
<td>Extrusion, mm</td>
<td>&lt; 6.4</td>
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<tr>
<td>ASTM D545</td>
<td></td>
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<tr>
<td>Water Absorption, %</td>
<td>&lt; 20.0</td>
</tr>
<tr>
<td>ASTM D545</td>
<td></td>
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<tr>
<td>Weathering Test</td>
<td>No Disintegration</td>
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Specification Clauses

The expansion joint filler as detailed shall be Estocell supplied by Estop and installed strictly in accordance with the manufacturer’s written instruction.

Design Criteria

Example of a sealed expansion joint in a subway is shown below:

1. Estojoint / Estoliastic
2. Bond breaking tape
3. Estocell
4. Recessed seal

Installation Instructions

When Estocell is used to form an expansion joint in concrete, it should be placed against the shuttering on the concreting side before the pour commences.

Copper nails may be used to prevent displacement in joints in suspended slabs.

Estocell may be bonded to the existing slab or previous pour using a suitable adhesive such as Estoflex GP, bitumen emulsion or equivalent wall panel adhesive.

Care should be taken not to contaminate surfaces of the sealing slot with the adhesive.
Joint Sealing

Putting a removable timber former on top of the Estocell can form a joint sealing slot.

Estocell can be installed to the full dept of the slab and cut back to the required depth then using a power brush machine. This method is used for housing estate roads, which cannot be cleaned and sealed until all building work had been completed.

Estocell should be tamped down to ensure that it fills the joint completely and provides continuous support for the joint sealant.

Packing & Size

<table>
<thead>
<tr>
<th>Estocell</th>
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<tbody>
<tr>
<td>10.0mm thick</td>
<td>1.22m x 2.20m /sheet</td>
</tr>
<tr>
<td>12.5mm thick</td>
<td>1.22m x 2.20m /sheet</td>
</tr>
<tr>
<td>20.0mm thick</td>
<td>1.22m x 2.20m /sheet</td>
</tr>
<tr>
<td>25.0mm thick</td>
<td>1.22m x 2.20m /sheet</td>
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Technical Support

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

Storage

Product should be stored in dry and covered area.

Precaution

There are no known health hazards associates with Estocell 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

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.