



# SpECcell Polyethylene 100

## CLOSED CELL JOINT FILLER BOARD

### DESCRIPTION

**SpECcell Polyethylene** is a semi-rigid, U.V. resistant, high performance closed cell polyethylene foam joint filler in sheet form. It is suitable for use as an expansion joint filler in concrete, brick, blockwork and isolation joints, where a readily compressible low load transfer joint filler is required.

**SpECcell Polyethylene** is non-tainting and therefore suitable for use in potable water retaining and water excluding structures.

### TYPICAL USES

**SpECcell Polyethylene** may be used in the following applications:

- Structural expansion joints in concrete, brick and blockwork
- Isolation joints to infill panels
- Bridge joints, abutments, pier hinge joints
- As a back-up support for sealants
- As a bond breaker for sealants over bituminous joint fillers
- Anti-vibration pads for machinery bases

### ADVANTAGES

**SpECcell Polyethylene** meets the following requirements:

- Completely fills the joints under repeated cycles of expansion and contraction
- Resistant to moisture penetration and ice formation in the joint
- Will not support dry or wet rot, fungus attack or similar forms of deteriorating agents
- Non-taint
- Cross-laminated to resist lateral and hydrostatic pressure
- Natural bond breaker
- Low load transfer to joint edges under compression

### RELEVANT STANDARDS

**SpECcell Polyethylene** meets or exceeds the requirements of the following specifications:

- U.K. Department of Transport Specification for Highway Works  
Part 3 - Clause 1015. 1991
- U.K. DOE Specs. for Road & Bridge Works - Clause 2630
- BS 5628 Part 3 : 2001
- U.K. Department of the Environment General Specification 201, Clause 606.

### TECHNICAL DATA

<b>Colour</b>	Black
<b>Density</b>	100kg/m <sup>3</sup>
<b>Thermal conductivity</b>	0.038kcal/mh °C
<b>Water absorption</b>	0.012%
<b>Operating temperature</b>	- 40 °C to +70 °C
<b>Recovery at 50% compression</b>	Average - 98%
<b>Extrusion</b>	Nil - compressed to 50%
<b>Weathering test</b>	No disintegration
<b>Bacteriological attack resistance</b>	Excellent
<b>Fire effect</b>	Being a thermoplastic material, <b>SpECcell Polyethylene</b> will melt. The rate of spread of flame will be minimised when confined in a joint.
<b>Compression loading</b>	Meets the requirements of BS 5628 Part 3. At the very low rate of compression associated with the moisture expansion of fired clay brickwork, the compression loads will

---

satisfy the advisory  
“about 0.1N/mm<sup>2</sup>” in  
the B.S. 5628 Code of  
Practice.

### **APPLICATION**

**SpECcell Polyethylene** is a compressible joint filler in sheet form, used to form and fill expansion joints.

#### ***In concrete***

**SpECcell Polyethylene** can be placed against formwork on the concreting side prior to placing the first section of concrete and is left in place on removal of the formwork. The subsequent pour is then cast directly against the **SpECcell Polyethylene**. The fibre board is then cut back later to form the sealing slot.

#### ***In blockwork and brick***

**SpECcell Polyethylene** should be installed, whilst laying brick or blockwork, in such a way that a sealing slot, of the required dimensions is formed.

### **PACKAGING & YIELD**

**SpECcell Polyethylene** is available in the following sizes:

- Thickness: 10, 15, 20 & 25mm
- Board size: 1m x2m

### **STORAGE & SHELF LIFE**

Indefinite, when stored in cool dry conditions.

### **HEALTH & SAFETY**

There are no health hazards associated with the normal use of **SpECcell Polyethylene**.

Issue 5: 11/2011

**QA-054**

Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

### **SPECIALITY ENGINEERING CHEMICALS**

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696  
E-mail: info@spec.ae; Skype ID: spec.sales

[www.spec.ae](http://www.spec.ae)