



SpECcell Polyethylene 60

CLOSED CELL POLYETHYLENE FOAM JOINT FILLER BOARD

DESCRIPTION

SpECcell Polyethylene 60 is a semi-rigid, high performance closed cell polyethylene foam joint filler. It is suitable for use as an expansion joint filler in concrete, brickwork and blockwork, and in isolation joints where a readily compressible low load transfer joint filler is required.

SpECcell Polyethylene 60 is non-tainting and therefore suitable for use in potable water retaining structures.

TYPICAL USES

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

ADVANTAGES

- Non-absorbent, closed cell
- Readily compressible
- Rot proof
- Deformable - accepts temperature cycle with minimal load transfer
- Non-tainting, suitable for potable water applications
- Excellent recovery after compression
- Resilient - will not distort under normal load from wet concrete
- Easily worked - can be cut with knife
- Economical in use
- Bitumen free - suitable for use with elastomeric sealants
- Chemical resistant - inert to most dilute acids and alkalis; resistant to oil and hydrocarbons

RELEVANT STANDARDS

SpECcell Polyethylene 60 meets or exceeds the requirements of the following specifications:

- ASTM D1752 (extrusion and recovery at 50% compression)
- BS 6920: Part 1 (suitability for potable water)
- 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

Colour	Grey
Density	60 kg/m ³
Water absorption	<0.2%
Compressive strength	>0.15 N/mm ²
Recovery at 50% comp.	>90%
Extrusion at 50% comp.	<1.5mm
Weathering test	No disintegration
Bacteriological test	Pass
Operating temperature	-40 °C to 70 °C
Fire effect	SpECcell Polyethylene 60 will melt in fire; the rate of spread of flame is minimized when confined in a joint
Compression loading	Meets the requirements of BS 5628 Part 3

APPLICATION

SpECcell Polyethylene 60 is a compressible joint filler in sheet form, used to form and fill expansion joints.

In concrete

SpECcell Polyethylene 60 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 60**. The fibre board is then cut back later to form the sealing slot.

In blockwork and brick

SpECcell Polyethylene 60 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 60 is available in the following sizes:

- Thickness: 10, 15, 20 & 25mm
- Board size: 1m ×2m

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 60**.

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