

SpECcell Polyethylene 100

CLOSED CELL POLYETHYLENE JOINT FILLER BOARD

DESCRIPTION

SpECcell Polyethylene 100 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 100 is non-tainting and therefore suitable for use in potable water retaining and water excluding structures.

TYPICAL USES

- 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

- Non absorbent, closed cell
- Readily compressible
- Rot proof
- Deformable - accepts temperature cycle with minimal load transfer
- Non-tainting, suitable for potable water
- Excellent recovery after compression
- Resilient - will not distort under normal load from wet concrete
- Easily worked - can be cut with a knife
- Economical in use
- Bitumen free - no bond breaker required for sealants
- Chemical resistant - inert to most dilute acids and alkalis, resistant to oil and hydrocarbons

RELEVANT STANDARDS

SpECcell Polyethylene 100 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
- ASTM D1752
- ASTM D1751 (Water Absorption)

TECHNICAL DATA

Colour	Black
Density	100kg/m ³
Thermal Conductivity	0.038kcal/mh°C
Water absorption	<0.25% volume to D1751
Operating temperature	-40°C to +70°C
Recovery at 50% compression	Average - 98%
Extrusion	Nil - compressed to 50%
Weathering test	No disintegration
Bacteriological attack resistance	Excellent
Fire effect	Being a thermoplastic material, SpECcell Polyethylene 100 will melt. The rate of spread of flame will be minimized when confined in a joint
Compression loading	Meets the requirements of BS 5628 Part 3

APPLICATION

SpECcell Polyethylene 100 is a compressible joint filler in sheet form, used to form and fill expansion joints.

In concrete

SpECcell Polyethylene 100 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 100**. The board is then cut back later to form the sealing slot.

In blockwork and brick

SpECcell Polyethylene 100 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 100 is available in the following sizes:

- Thickness : 10, 15, 20 & 25mm
- Board size : 1mx2m

STORAGE & SHELF LIFE

Indefinite, when stored in cool and dry conditions.

HEALTH & SAFETY

There are no health hazards associated with the normal use of **SpECcell Polyethylene 100**.

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