SpECcell Polyethylene

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

Density	100kg/m³
Thermal conductivity	0.038Kcal/mh°C
Water absorption	0.012%
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** will melt. The rate of spread of flame will be minimised when confined in a joint.
Compression loading	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/mm²" 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 Polyethy-lene.** 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 ×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**.

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SPECIALITY ENGINEERING CHEMICALS

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696

E-mail: specdxb1@emirates.net.ae

www.spec.ws