

MIXCELL FBR

Bitumen impregnated flexible fibre board for construction joints

MIXCELL FBR is a flexible, compressible non extruding bitumen impregnated fibre board for construction / expansion joints. It is suitable for forming expansion joints in construction structures such as in suit concrete, brick and block work, and is a tough durable material when used as a protection course for membrane water-proofing.

Appropriation

Mixcell FBR can be used for the following applications:

- Joints in trafficked surfaces, bridges, roads, runways and pedestrian areas
- Joints in concrete roofs, walls, cladding and floors
- As a filler in structural separation joints
- Between buildings, brickwork, concrete and block construction
- As a separator strip in slab pavement construction

Characteristics

Mixcell FBR sheets are used in various types of expansion joints, strips of suitable width and thickness can be used as padding at the edge of bitumen impregnated expansion joint filler sheets.

- Quantity of sealant to be applied for perfect finishing.
- Availability in exact thickness and width as per site requirement ensure minimum use of sealant
- Completely fills the joints under repeated cycles of expansion and construction
- 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

Technical Data & Properties

Form: Compressible sheet
Density: $>350\text{kg/m}^3$
Solid content: 100%
Bitumen content: $>20\%$
Recovery value: average 70%
Extrusion: sample compressed to 50% with three edges restrained: 6mm
Loss of weight: $<1\%$
Weathering test: no disintegration
Water absorption: $<0.15\%$
Brittleness test: No sign of crack or shatter
Operating temperature: $+70$ to -40°C
Distortion: $1.5\text{mm}@52^\circ\text{C}$
Impact resistance: No sign of damage / puncture
Standards conforms to: ASTM-D1751-99 / D545-99
ASTM-D994-98

Product management

Mixcell FBR is positioned to provide a surface sealing slot of required dimensions when used as an expansion or isolation joint filler in brickwork, to ensure that the sealing slot is free from mortar dropping or slurry bridging.

In concrete: Mixcell FBR 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 Mixcell FBR, and then cut back the board later to form the sealing slot.

In block and brick work: Mixcell FBR should be installed, whilst laying brick or block work, in such a way that a sealing slot, of the dimensions required, is formed.

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As a protection membrane: Mixcell FBR should be installed to provide a continuous protection layer over the water-proof membrane, it may be bonded to the membrane using rubberized bitumen mastic or a double sided adhesive tape.

Packing and storage

Supply: sheet size 1220mm x 2200mm / 1000mm x 2000mm

Thickness: 10, 12.5, 19 & 25mm

Mixcell FBR has a shelf life of 2 years if stored in cool and dry conditions

Health & safety

Mixcell FBR contains no hazardous substances; however wear suitable protective gloves and goggles whilst handling. For more details, please refer to the MSDS released on each Fab product

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THE CONSTRUCTION CHEMIST

Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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