

MULTIJOINT

Non-Absorbent, Close Cell Polyethylene Joint Filler

Specification

Water Authorities Association Civil Engineering Spec. for the Water Industry, Second Edition Clause 7.17.

Water Byelaws Scheme - approved product, listing number 9101505. DTP specification for highway works, December 1991, series 1000 Clause 1015. BS 5628 Part3 code of Practice for the use of masonry

Description

MULTIJOINT is a rot proof, non-absorbent, semi-rigid, cellular polyethylene joint filler for forming expansion joints in concrete, brick work and water retaining structures.

Typical Application

- * Brickwork
- * Deck slabs
- * Basement structures and subways
- * Retaining walls
- * Sea walls
- * Raw and potable water reservoirs
- * Sewage treatment works
- * Irrigation channels and culverts

Advantages

- * Non - absorbent
- * Rot proof
- * Non - tainting
- * Resilient
- * Low load transfer
- * Bitumen free

Where to Use

* MULTIJOINT is a semi-rigid. UV resistant, closed cell polyethylene sheet material used for forming or filling expansion joints between adjacent building components.

* It is especially recommended for use in expansion joints in brickwork and in the construction of water retaining and water excluding structures.

* MULTIJOINT is non-tainting and rot proof and is therefore particularly suitable for use in structures for the storage of potable water.

* Supplied in sheet form it can be readily cut or sawn in the size required.

* The heat welded laminated structure of MULTIJOINT combine's greater rigidity and load support in the perpendicular plane with compressibility and low load transfer across the joint width. These properties make it particularly suitable for expansion joints in brickwork.

* BS 5628 Part 3 "Use of Masonry" Para. 20.4 describes the compressibility of the joint filler as possibly the most critical factor in the design of an adequate joint for fired clay brickwork. This advised, cellular polyethylene, polyurethane

hemp, fibre board, cork and similar material should not be used for expansion joints in fired day brickwork.

Storage

There are no specific instructions regarding storage, however, MULTIJOINT should be stored in clean areas and not be left exposed for long periods, especially in hot climates.

Typical Properties

| | |
|---------------------------------------|---|
| Form: | Semi-rigid, closed-cell, heat laminating sheet |
| Recovery: | Greater than 98% after 3 days |
| Extrusion: | Nil. Sample compressed to 50% with three edges restrained |
| Water Absorption; | Less than 1% |
| Weathering Test: | No disintegration |
| Resistance to bacteriological attack: | Excellent |
| Normal Density: | IS 40, IS 100 |
| Elongation at Break; | IS 40-116%, IS 100-98% |
| Tensile Strength at 70%: | IS 40 327 KPA, IS 100-782 KPA |
| Tear Strength of Width: | IS 40-40, 2N / MM, IS 100-5, 4 N / MM |

Effects of Fire: Being thermoplastic MULTIJOINT will melt. It is combustible but when confined within a joint, rate of flame spread will be reduced.

Compression Loading: Meets with the requirements of BS5628: part 3. The load compression curve shown below is based on a compression rate of 1.3mm / min. At the very low compression associated with the moisture expansion of fired clay brickwork, the compression loads will satisfy the advisory "about MPa" given in the BS 5628 Code of Practice.

Application Instructions

Joint Sealing Slots

When forming expansion joints with MULTIJOINT in in-situ concrete, joint sealing slots can be readily formed in the following manner:-

- * Before installing, simply cut off a strip to the required depth. Pin the strip back on using two-inch nails at intervals then install the filler flush with the finished surface

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* Prior to sealing, the top tear off strip can then be pulled easily from the joint to provide an uncontaminated sealing slot ready for preparation and sealing.

* As elastomeric sealants will not bond to MULTIJOINT, the additional need for bond breaker strips is eliminated

Estimating

MULTIJOINT is supplied in the following sheet sizes and can be easily cut to the required size with a Stanley knife

Sheet Size: 1.2mx2.0m

Sheet Thickness: 5, 10, 12, 15, 20, 25, 30, 40 and 50mm
nominal

Joint former: Can be cut to specified strip widths
complete with tear off strip on request

Quality Assurance

MCC LIMPOPO's products and testing programmes comply to local and international testing standards.

Updates:

This data sheet supersedes all previous issues prior to this date:
31/05/97.