# TECHNICAL DATA SHEET

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MULTI CONSTRUCTION CHEMICALS
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# 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 Part 3 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.

Multijoint also has high insolation and acoustic properties and can be used in air conditioning, heating, solar heating and many other applications.

### Density Application
Multijoint is used in a number of diversified applications and is supplied in two densities

**Multijoint IS40**
Expansion joint in:
* Paving
* Pool decks
* Concrete flooring
* Between columbs and brickwork

**Multijoint** IS100
Uses: Reservoirs
Expansion joints in:
* water retention works
* sewage works

### Specifications

| | | |
|---|---|---|
| 40kg/m° | nominal density | 100kg/m° |
| 116% | elongation at break | 98% |
| 327 KPA | tensil strength at 70% | 782kpa |
| 4.2N/mm | tear strength of width | 5.4N/mm |
| excellent | chemical resistant | excellent |
| -40°C to +90°C | working temperature | -40°C to +90°C |

### 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.
  BS5628 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.

### 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
- 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 elastromeric 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: Sheet Thickness:** | 1.2m x 2.0m<br>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
MULTI CONSTRUCTION CHEMICALS (PTY) LTD'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.



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