

RIW MULTIJOINT

MultiJoint is a closed cell, cross linked Ethylene Vinyl Acetate (EVA), copolymer foam.

MultiJoint Adhesive is a two part, solvent free, modified epoxy adhesive.

BENEFITS

- ┆ Resists up to 20m head of water
- ┆ Multi-directional movement accommodated
- ┆ Up to 90% movement capability
- ┆ No special jointing pieces required
- ┆ Easily cut and welded on site
- ┆ Available in a wide range of sizes

APPLICATIONS

- ┆ All types of construction gaps and movement joints

APPLIED TO

- ┆ Concrete
- ┆ Masonry

RIW MULTIJOINT

TYPICAL USES

MultiJoint is used to seal joints in Podium Decks, Car Parks, Foot/Road bridges, Stadiums and Sports Arenas, Shopping Malls, Airports, Roofs and Building Façades.

The manufacturing process of the product gives a nitrogen blown, impermeable, closed cell foam which is resistant to salts and most chemical attack. It also has good uv. resistance and is therefore suitable for use in exposed exterior applications.

MultiJoint has been designed for use in all types of construction gaps and movement joints to provide a waterproofing system between the structural elements. Movement capability of up to 90% of the construction gap is achieved, and the material is chemically bonded to each structure, maintaining the waterproofing of the joint. The product has grooves along the bond surface that run the entire length of the joint, and these grooves increase the surface area and enhance the adhesion to the substrate.

ANCILLARY PRODUCTS

MultiJoint Adhesive – Epoxy adhesive used to bond MultiJoint to structure.

Universal Tape – a debonding tape for use between MultiJoint and finishing sealants, when required.

MULTIJOINT SIZES & MOVEMENT CAPABILITY			
Reference	Joint Width	Product Size (w x d)	Movement (+/-)
MJT20	20mm	25x25mm	8mm
MJT25	25mm	30x25mm	11.5mm
MJT30	30mm	35x25mm	13mm
MJT35	35mm	43x25mm	15mm
MJT40	40mm	45x45mm	18mm
MJT50	50mm	60x45mm	22.5mm
MJT60	60mm	75x45mm	25mm
MJT70	70mm	85x58mm	30mm
MJT75	75mm	90x58mm	35mm
MJT85	85mm	105x58mm	40mm
MJT100	100mm	120x58mm	45mm

PERFORMANCE & COMPOSITION

TECHNICAL DATA: MULTIJOINT	
Form	Closed cell foam
Colour	Silver grey
Nominal density – skin/skin BS ISO 7214: 1998	50 kg/m ²
Cell size – typical diameter	0.35mm
Compression Stress-Strain BS ISO 7214: 1998	10 % = 30 kPa 25 % = 51 kPa 40 % = 82 kPa 50 % = 115 kPa
Tensile strength BS ISO 7214: 1998	840 kPa
Tensile elongation BS ISO 7214: 1998	245%
Tear Strength BS EN 8067: 1995	1055 N/m
Shore hardness OO Scale ISO 868: 1985	47
10mm cell/cell thickness	OO
Recommended operating temperature range	+65°C maximum -70°C minimum
Thermal conductivity ISO 8302: 1991	Mean temp. of 10°C 0.0404 W/m.K

TECHNICAL DATA: MULTIJOINT ADHESIVE	
Form	Two part epoxy
Colour	Concrete grey
Pot life	45 minutes @ 15°C
Tack time	90 minutes
Full cure	8 hours minimum
Tensile strength ASTN D638	24.1 N/mm ²
Compressive Strength ASTM D695	48.3 N/mm ²
Shore D Hardness	75 minimum
Elongation at break ASDM D638 modified	3 – 5%
Water absorption by weight	0.25%

The above performance figures are typical values and should not be considered a product specification.

CONSTRUCTION

GENERAL

All construction should conform with the Building Regulations, Codes of Practice and British Standards in current use at the time the building is constructed.

PREPARATION

All surfaces: Must be free from dirt, dust, oil, grease, organic growth and any extraneous substances that could impair adhesion or cure of the MultiJoint Adhesive.

APPLICATION

Apply MultiJoint Adhesive to sides of joint and edges of MultiJoint then insert. Protect top edges of joint as necessary, to ensure adhesive is not visible on surface or interfering with bond of sealant.

MultiJoint is designed to be installed pre-compressed by 25% into the joint width.

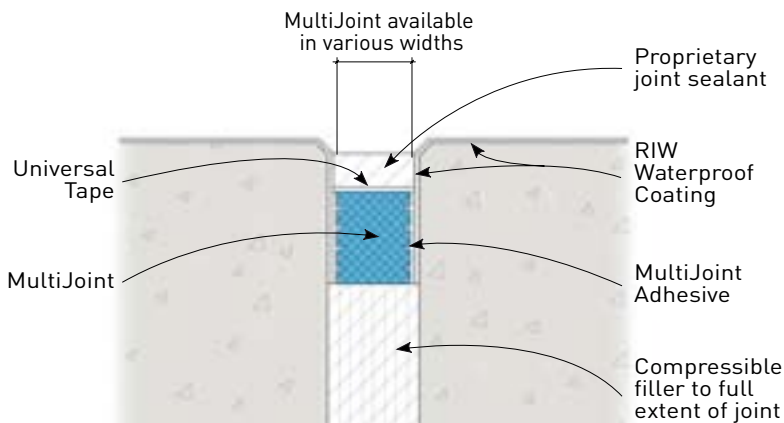
Joints and directional changes in the MultiJoint are affected on site by using heat welding using a heating iron.

RECOMMENDED EQUIPMENT

- Heating iron
- Band saw

SAFETY

Full health and safety instructions are contained on the product material safety data sheets and these must be referred to before use.



Typical Movement Joint

SUPPLY

AVAILABILITY

All RIW products can be obtained through Builders Merchants or approved stockists. A list of approved stockists is available from RIW's offices.

PACKAGING

Reference	Length (m)	Adhesive Usage per 5kg
MJT20	20m	25m
MJT25	20m	25m
MJT30	20m	25m
MJT35	20m	25m
MJT40	20m	15m
MJT50	10.5m	15m
MJT60	10.5m	15m
MJT70	10.5m	10m
MJT75	10.5m	10m
MJT85	10.5m	10m
MJT100	10.5m	10m

MultiJoint Adhesive 5 kg pack (two part)

STORAGE

Materials should be stored in a heat maintained area at a temperature between 10 and 25°C.

Damaged or open containers should not be used. Soiled or damaged lengths of MultiJoint should be discarded.

TECHNICAL SERVICES

The Technical Department is available to advise on individual projects and to prepare or assist in the preparation of specifications and drawings. A list of experienced applicators of our materials is available from RIW's offices.

The information in this literature was correct at the time of going to press. However, we are committed to continually improving our products and reserve the right to change product specifications.

For the latest information, please consult RIW. Conditions of use are beyond our control, therefore we cannot warrant the results to be obtained.

RIW

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