

MultiJoint

Designed for use in all types of Construction Gaps and Movement Joints

DESCRIPTION

RIW MultiJoint is a closed cell, cross linked Ethylene Vinyl Acetate (EVA) copolymer foam. The manufacturing process gives a nitrogen blown, impermeable, closed cell foam. The product is waterproof and resistant to salts and most chemical attack. It also has good uv. resistance and is therefore suitable for use in exposed exterior applications.

RIW 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.

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

TYPICAL USES

RIW 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.

ADVANTAGES

- No special jointing pieces required
- Easily cut and welded on site
- Available in a wide range of sizes
- Resists up to 20m head of water

ANCILLARY PRODUCTS

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

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

CONSTRUCTION / APPLICATION

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.

SURFACE 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 RIW MultiJoint Adhesive.

PRODUCT APPLICATION

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

RIW 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.

See also separate Installation Guidelines.

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.



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The RIW MultiJoint logo, consisting of the letters 'RIW' in a large, bold, white font inside a dark blue oval, with the word 'MultiJoint' in a smaller, bold, white font below it.

PERFORMANCE & COMPOSITION

TECHNICAL DATA – RIW MULTIJOINT	
Form	Closed cell foam
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
Compression Set BS ISO 7214 : 1998 25mm cell - cell	25 % comp., 22hr, 23°C ½ hr recovery = 10.5 % 24 hr recovery = 3 % 50 % comp., 22hr, 23°C ½ hr recovery = 23.5 % 24 hr recovery = 13 %
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 10mm cell/cell thickness	47 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 – RIW MULTIJOINT ADHESIVE	
Form	Two part epoxy
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.

RIW MULTIJOINT – SIZES AND MOVEMENT CAPABILITY			
Reference	Joint width	Product depth	Movement
20W25D	20mm	25mm	+/- 10mm
25W30D	25mm	30mm	+/- 12.5mm
30W30D	30mm	30mm	+/-15mm
35W35D	35mm	35mm	+/- 17.5mm
40W45D	40mm	45mm	+/- 20mm
50W50D	50mm	50mm	+/- 25mm
60W60D	60mm	60mm	+/- 30mm
70W60D	70mm	60mm	+/- 35mm
75W65D	75mm	65mm	+/- 37.5mm
85W75D	85mm	75mm	+/- 42.5mm
100W75D	100mm	75mm	+/- 50mm
120W75D	120mm	75mm	+/-60mm
140W85D	140mm	85mm	+/-70mm

SUPPLY

AVAILABILITY

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

PACKAGING

RIW 20W25D	20m long coils
RIW 25W30D	20m long coils
RIW 30W30D	20m long coils
RIW 35W35D	20m long coils
RIW 40W45D	20m long coils
RIW 50W50D	10.5m long coils
RIW 60W60D	10.5m long coils
RIW 70W60D	10.5m long coils
RIW 75W65D	10.5m long coils
RIW 85W75D	10.5m long coils
RIW 100W75D	10.5m long coils
RIW 120W75D	10.5m long coils
RIW 140W85D	10.5m long coils
RIW 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 RIW Technical Department is available to advise on individual projects and to prepare and assist in the preparation and specifications and drawings. A list of experienced applicators of RIW materials is available from RIW Ltd'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 Limited. Conditions of use are beyond our control, therefore we cannot warrant the results to be obtained.