

FlexJoint and FlexJoint HD

Non-Absorbent Joint Filler

INTRODUCTION

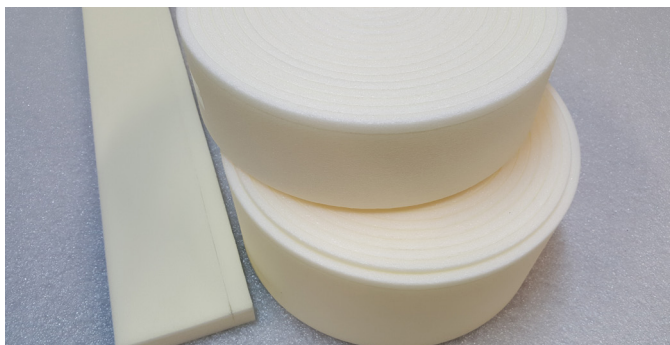
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Newton FlexJoint & Newton FlexJoint HD are closed-cell, expanded polyethylene foam joint fillers. Robust, non-absorbent, easy to use, economical and safe, FlexJoint & FlexJoint HD have excellent recoverable abilities of 100% from a 50% compression, low load transfer, are non-extruding and have superior resistance from attack by most acids and alkalis.

FlexJoint is used in brickwork and concrete slab expansion, isolation and movement joints, and can be supplied in either sheet form or in pre-cut widths with an easily removable tear-off strip to provide controlled void formation for sealant application.

FlexJoint HD is fully certified by the Water Regulation council to BS 6920 for use in water critical applications, and is one of the only materials available currently which has this certification. FlexJoint HD is also used in heavy trafficked areas such as garage forecourts, warehouses, car parks and runways.

FlexJoint



FlexJoint HD



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KEY BENEFITS

- CFC and HFCF free
- Cross-linked polyethylene foam
- Full continuous tear-off strip for ease of sealant application and installation
- Supplied as rolls, sheet form or pre-cut widths
- Thickness range from 10 mm through to 25 mm, larger thicknesses available on request
- Incredibly economical, fast and easy to use

PACKAGING & STORAGE

Standard packaging size: Please refer to Product Codes Section on Page 3

Storage : Stored dry, indoor conditions protected from UV light.

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TECHNICAL DATA

	FlexJoint	FlexJoint HD		
Features	Result		Units	Test Method
Colour	Cream	Dark grey		
Material	Closed-cell expanded polyethylene foam			
Density	29	60	kg/m ³	ISO 845
Tensile Strength - MD	323	605	kPa	ISO 1798
Tensile Strength - TD	265	484	kPa	ISO 1798
Compression 10%	22	66	kPa	ISO 844
Compression 25%	42	89	kPa	ISO 844
Compression 50%	103	170	kPa	ISO 844
Compression Set - 0.5 hours	15	8	%	ISO 1856
Compression Set - 24 hours	6	3	%	ISO 1856
Compression Set - 50%/0.5 hours	40	30	%	ISO 1856
Compression Set - 50%/24 hours	29	17	%	ISO 1856
Working Temperature Range	-60 to +90	-60 to +90	°C	In house testing
Water Absorption/Vol (max)	1	1	%	In house testing
Water Vapour Transmission	1.2	1.15	g/m ² /24h	ISO 1663
Thermal Conductivity at 10° C	0.038	0.04	W/mk	ASTM C117
Thermal Conductivity at 40° C	0.042	0.042	W/mk	ASTM C117
Hardness - Shore OO	49	25		ASTM D2240
Compression 50%	103	170	kPa	ISO 844
Compression 50%	103	170	kPa	ISO 844
Compression 50%	103	170	kPa	ISO 844
Flammability	71	-	mm/min	FMVSS 302

All technical data stated above is based on test results carried out under laboratory conditions.

CHEMICAL RESISTANCE - FLEXJOINT HD

Aggressor	Result	Aggressor	Result	Aggressor	Result	Aggressor	Result
Distilled Water	Very good	Vinegar (5%)	Very good	Diesel Fuel	Very good	Toluene	Very good
10% NaCl Solution	Very good	10% NaOH	Very good	High Octane Fuel	Very good	Acetone	Very good
30% H ₂ SO ₄	Very good	10% NH ₃	Very good	Ethyl Acetate	Very good	Trichloroethane	Very good
10% HNO ₃	Very good	Ethanol (95%)	Good	Hexane	Very good	Soap	Very good
10% HCl	Very good						

TYPICAL APPLICATIONS

- To fill isolation joints, movement joints, shrinkage joints and expansion joints within concrete and mortar
- Used in conjunction with Newton flexible resins for the sealing of the above joints within watertight structures

ANCILLARY PRODUCTS

- [Newton FlexProof-NV](#): Flexible sealant used to fill the top of the joint after the removal of the tear-off strip
- [Newton PC 509 Rubber Acryl](#): Elastic acrylic resin that can be poured into joints - subject to movement - to seal against ground water ingress

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PURCHASE CODES

FLEXJOINT HD		
Product	Size	Code
FlexJoint HD Sheet	10 mm x 1 m x 2 m	FJHDS10
FlexJoint HD Sheet	12 mm x 1 m x 2 m	FJHDS12
FlexJoint HD Sheet	15 mm x 1 m x 2 m	FJHDS15
FlexJoint HD Sheet	20 mm x 1 m x 2 m	FJHDS20
FlexJoint HD Sheet	25 mm x 1 m x 2 m	FJHDS25

COLOUR

- FlexJoint - Cream
- FlexJoint HD - Dark grey

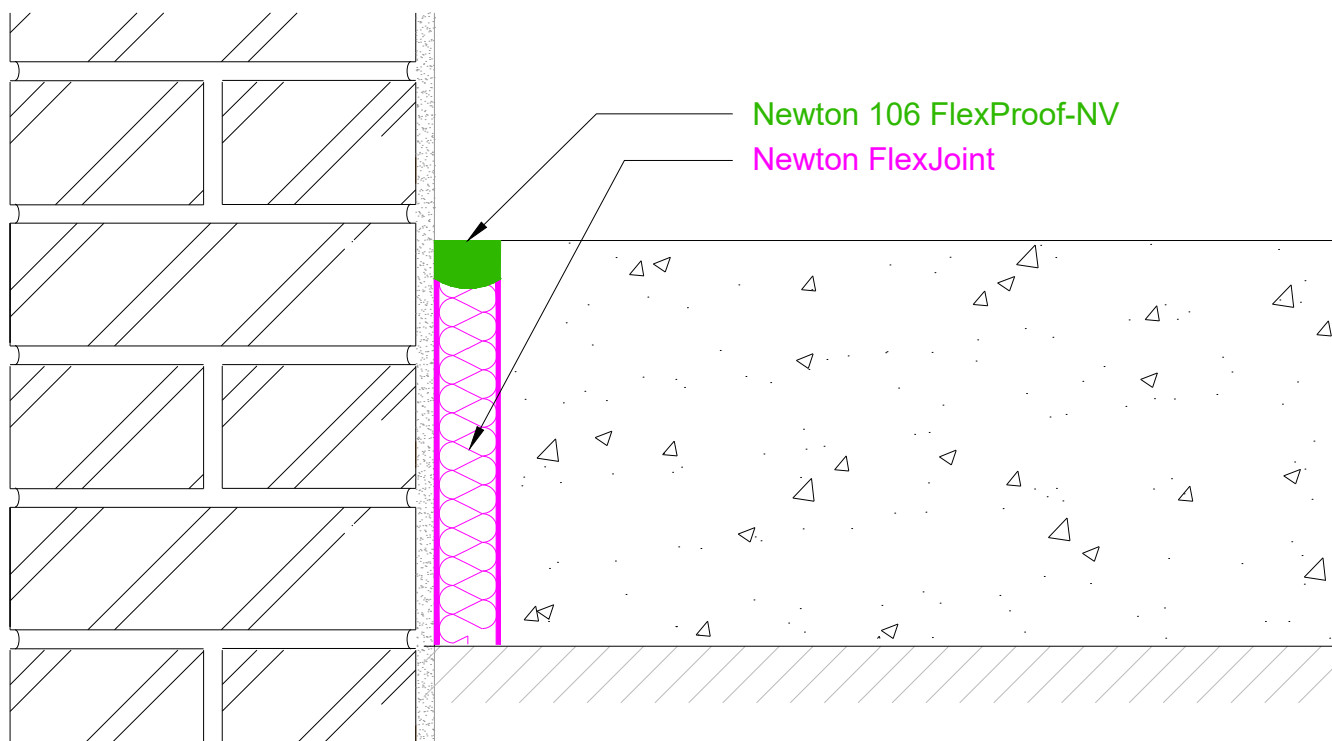
TOOLS REQUIRED

- Stanley Knife (or similar)
- [HydroTank 309 Flexible Adhesive](#)

SUITABLE SUBSTRATE

- Concrete
- Brick or Blockwork

TYPICAL DETAIL



LIFE EXPECTANCY

When specified, installed and protected in accordance with the Data Sheet, fully and permanently isolated from UV light and physical damage or wearing, and only to those substrates confirmed within this Data Sheet, FlexJoint and FlexJoint HD have a service life that can be equal to the design life of the structure (estimate 50 years).

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SPECIFICATION

Newton Waterproofing Systems work in partnership with RIBA and [NBS Source](#), which integrates into project workflows, providing all product data from Newton's NBS BIM Objects, NBS Plus Clauses and RIBA Product Selector into one single source of product information.

NBS Source also hosts a large selection of Newton [case studies](#), as well as product [literature and certifications](#). A wide range of drawings are available [on our website](#).

TRAINING AND COMPETENCY OF THE USER

Newton FlexJoint and Newton FlexJoint HD should be installed by those with an understanding of the requirement to waterproof retained structures and the knowledge and training to use the product as part of a co-ordinated approach to the waterproofing of the structure, which in many cases will require further waterproofing products so as to achieve the required grade as defined by BS 8102:2022.

[Newton Specialist Contractors \(NSBCs\)](#) are trained by Newton Waterproofing Systems in the correct specification and installation of Newton waterproofing products and will provide the client with a meaningful insurance backed guarantee for the waterproofing.

METHOD OF INSTALLATION

When used in board or strip form for an expansion/movement joint, FlexJoint & FlexJoint HD can be spot bonded in position using HydroTank 309 Flexible Adhesive to bond the substrate after cutting to size with a Stanley Knife or similar.

HEALTH & SAFETY

Product should only be used as directed.

Welding of flexible PVC can result in the release of Hydrochloric Acid fumes. In confined areas use a respirator or use forced ventilation. Do not inhale the fumes. On open sites these precautions are not usually necessary but care should be taken not to inhale any fumes. The electric welding knife should be properly earthed before use.

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.