

FlexJoint and FlexJoint HD

Non-Absorbant Expansion Joint Filler

Version: 1.0 -21st September 2023
Code: All FJ & FJHD Codes

INTRODUCTION

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 joints, and can be supplied in either sheet form or in pre-cut widths with an easily removable tear-off strip giving 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.

KEY BENEFITS

FlexJoint

- CFC and HCFC 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 10mm through to 25mm, larger thicknesses available on request
- Strips and roll widths range from 100mm through to 200mm
- Incredibly economical, fast and easy to use

FlexJoint HD

- CFC and HCFC free
- Cross-linked polyethylene foam
- Full continuous tear-off strip for ease of sealant application and installation
- Heavy density 60 kg/m³
- Supplied in sheet form 2m x 1m
- Thickness range from 10mm through to 25mm, larger thicknesses available on request
- Incredibly economical, fast and easy to use

COLOUR

- FlexJoint - Cream
- FlexJoint HD - Dark grey

TOOLS REQUIRED

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



SUITABLE SUBSTRATE

- Concrete
- Brick or Blockwork

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.

FlexJoint and FlexJoint HD

Heavy Density Foam

TECHNICAL DATA

Features	FlexJoint	FlexJoint HD	Unit	Standard
Density	29	60	Kg/m ³	ISO 845
Tensile Strength - MD	323	605	kPa	ISO 1798
Tensile Strength - TD	265	484	kPa	ISO 1798
Elongation - MD	100	127	%	ISO 1798
Elongation - TD	115	147	%	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 Hrs	15.0	8.0	%	ISO 1856
Compression Set - 24 Hrs	6.0	3.0	%	ISO 1856
Compression Set 50% 0.5 Hrs	40.0	30.0	%	ISO 1856
Compression Set 50% 24 Hrs	29.0	17.0	%	ISO 1856
Working Temperature Range	-60\90	-60/90	°C	Internal
Water Absorption %Vol (max)	1	1	%	Internal
Water Vapour Transmission	1.20	1.15	g/m ² *24h	ISO 1663
Thermal Conductivity at 10°C	0.0380	0.0400	W/mk	ASTM C117
Thermal Conductivity at 40°C	0.0420	0.0420	W/mk	ASTM C117
Shore-OO	49	25	OO	ASTM D2240
Flammability	71	-	mm/min	FMVSS302

STORAGE

Kept clean, dry and indoors.

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).

SPECIFICATION

Newton Waterproofing Systems work in partnership with RIBA NBS 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](#).

Chemical Resistance - FlexJoint HD

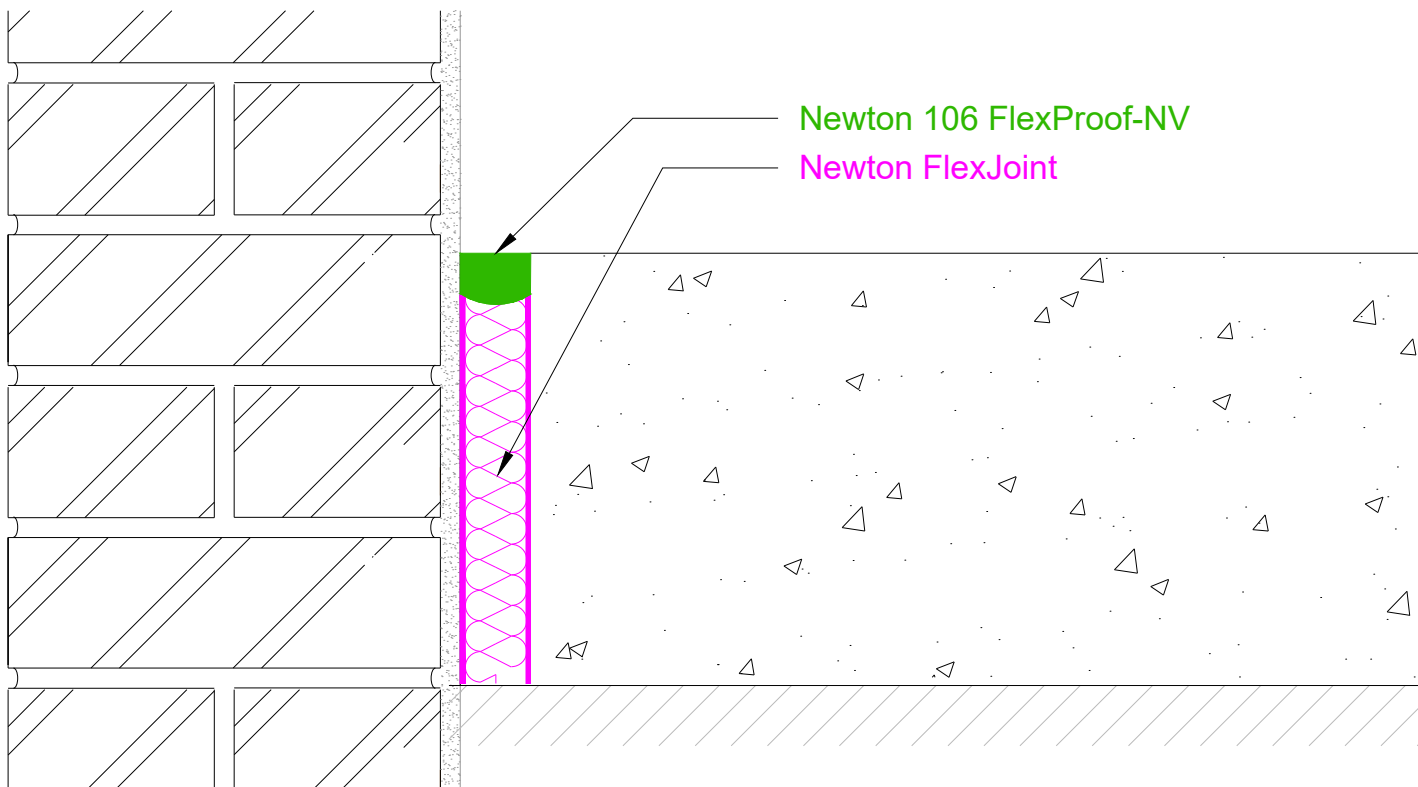
Chemical Resistance - FlexJoint HD	Standard
Distilled Water	Very Good
10% NaCl Solution	Very Good
30% H ₂ SO ₄	Very Good
10% HNO ₃	Very Good
10% HCl	Very Good
Vinegar (5%)	Very Good
10% NaOH	Very Good
10% NH ₃	Very Good
Ethanol (95%)	Good
Diesel Fuel	Good
High Octane Fuel	Resistant
Ethyl Acetate	Good
Hexane	Good
Toluene	Conditionally Resistant
Acetone	Good
Trichlorethane	Conditionally Resistant
Soap	Very Good

Results based on internal tests similar to DIN 53428

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Heavy Density Foam

TYPICAL DETAIL



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 habitable 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.

PRODUCT CODES - FLEXJOINT HD

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

PRODUCT CODES - FLEXJOINT

Product	Size	Code
FlexJoint Sheet	10mm x 1m x 2m	FJ10S
FlexJoint Sheet	12mm x 1m x 2m	FJ12S
FlexJoint Sheet	15mm x 1m x 2m	FJ15S
FlexJoint Sheet	20mm x 1m x 2m	FJ20S
FlexJoint Sheet	25mm x 1m x 2m	FJ25
FlexJoint Roll	10mm x 100mm x 10m	FJ10100
FlexJoint Roll	10mm x 150mm x 10m	FJ10150
FlexJoint Roll	10mm x 175mm x 10m	FJ10175
FlexJoint Roll	10mm x 200mm x 10m	FJ10200
FlexJoint Roll	12mm x 100mm x 10m	FJ12100
FlexJoint Roll	12mm x 150mm x 10m	FJ12150
FlexJoint Roll	12mm x 200mm x 10m	FJ12200
FlexJoint Length	20mm x 100mm x 2m	FJ20100
FlexJoint Length	20mm x 150mm x 2m	FJ20150
FlexJoint Length	20mm x 200mm x 2m	FJ20200
FlexJoint Length	25mm x 100mm x 2m	FJ25100
FlexJoint Length	25mm x 150mm x 2m	FJ25150
FlexJoint Length	25mm x 200mm x 2m	FJ25200

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