

System 300

NEWTON 305 ACTIVEJOINT

Movement Joint Profile

Rev 2.0 - 12 April 2018

PRODUCT CODE - SX305

INTRODUCTION

[Newton 305 ActiveJoint](#) is an EDPM, movement joint profile which is used in conjunction with [Newton 106 FlexProof](#) to waterproof movement joints where risk of damage to the 106 FlexProof due to mechanical wear is expected.

The innovative design of the profile has ribs to the edge surfaces that act as barbs to grip the substrate either side of the joint. The profile also compresses when driven in to the joint which results in the profile expanding to ensure a tight fit. The combination of the expansion and the barbs provides a very tight seal to the movement joint.

Newton 305 ActiveJoint is suitable to be used within joints of up to 45 mm width, and will resist movement of +/- 20% horizontally and 10% vertical shear.

KEY BENEFITS

- UV resistant
- Outstanding low temperature flexibility
- High abrasion resistance
- Enhances the watertightness of the Newton 106 FlexProof movement joint
- Resistant to alkalis and acids
- Quick and simple to install

TYPICAL APPLICATIONS

Enhancing the performance of movement joints waterproofed with Newton 106 FlexProof to provide improved durability to chemical and mechanical wearing agents and protection against UV.

SIZING OF NEWTON 305 ACTIVEJOINT

Newton 305 ActiveJoint is available in three sizes. The correctly sized profile must be used for the width of the joint:

- 305 ActiveJoint 20/26 - 36 mm wide x 35 mm high
Use with joints of 20mm to 26mm
- 305 ActiveJoint 27/36 - 46 mm wide x 45 mm high
Use with joints of 27 mm to 36 mm
- 305 ActiveJoint 37/45 - 56mm wide x 55 mm high
Use with Joint of 37 mm to 45 mm

COLOUR

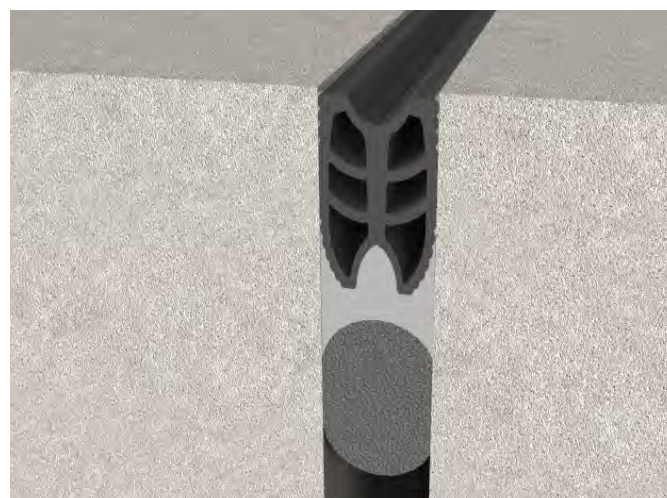
Black.

SUITABLE SUBSTRATE

- Concrete
- Screed

SPECIALIST TOOLS REQUIRED

Corners are mitred and so a mitre cutting tool is required.

**METHOD OF INSTALLATION**

Newton 305 ActiveJoint is inserted into the joint, above the installation of Newton 106 FlexProof, using a hammer and blunt chisel. Newton 106 FlexProof is used as both a lubricant, to assist in application and an adhesive to bond the profile to the sides of the joint.

CONSUMPTION

80 ml Newton 106 FlexProof is required for each metre of Newton 305 ActiveJoint.

TRAINING & COMPETENCY OF USER

Newton 305 ActiveJoint should be used by those with an understanding of the requirement to waterproof movement joints and the knowledge and training to use the product as part of a coordinated approach to the waterproofing specification, which in many cases will require further waterproofing products.

ANCILLARY PRODUCTS

- Newton 106 FlexProof - Single component, waterproofing compound for the sealing and waterproofing of movement joints
- [Newton 916 FlexProof Primer](#) - Primer for use with Newton 106 FlexProof

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TECHNICAL DATA

Features	Result	Units
Material	EDPM	
Colour	Black	
Profile	36 x 35 46 x 45 56 x 55	mm
Coil length	5.8 5.8 10	Metres
Shelf life	Unlimited shelf life	
Application temperature	+1 to +35	°C
Service temperature	-30 to +60	°C

LIFE EXPECTANCY

Newton 305 ActiveJoint is very resistant to mechanical and chemical wear. However, it is impossible to accurately determine the life expectancy as this is dependent on the type, frequency and aggressiveness of the wearing agents. We suggest the O&M manual requests inspection at appropriate intervals. Please speak with the installing contractor or our Technical Team for advice.

SPECIFICATION

Newton Waterproofing Systems are in partnership with RIBA NBS who publish details of our products and systems within their specification clause library to allow Architects ease of specification through their NBS Plus interface. NBS clauses can be accessed via the technical resources area of the web site where a live NBS Feed is available at [NBS Plus Live Feed](#)

Our website has a wide choice of downloadable [Technical Drawings](#), and a large selection are also available either via [FastrackCAD](#), or as BIM objects on the [National BIM Library](#) and/or [BIMObject.com](#)

CUTTING & JOINTING

- Select the correctly sized profile to suit the joint width (please see bottom of page one for the correct sizing of the profile relative to the joint)
- Measure the length of the joint to be waterproofed and lay-out the correct length of Newton 305 ActiveJoint adjacent to the joint ready for mitring and jointing
- Use a mitre tool to cut the profile as required to follow the joint. Joints can either be glued with standard superglue or with Newton 106 FlexProof
- If glued, apply the glue to both sides of the profile joint in a thin layer. Leave for about 20 seconds and then place the two ends together and hold in place for about 60 seconds. Carefully place the joint onto the working surface and leave for 5 minutes prior to insertion of the profile in to the movement joint. The last joint of a ring or circuit should be glued when the profile is in place



INSTALLATION

- Install Newton FoamStop and Newton 106 FlexProof as instructed within the Newton 106 FlexProof Data Sheet, except that the FoamStop and the FlexProof should be lowered to take into account the size of the 305 ActiveJoint profile
- Coat the sides of the joint with a 1 mm film of Newton 106 FlexProof. The 106 FlexProof acts as a lubricant during installation and also as an adhesive to further secure the profile
- Squeeze the Newton 305 ActiveJoint into the movement joint
- Use a hammer and blunt chisel and hammer the profile into the movement joint until the top of the profile is about 4 mm below the top of the joint or level with the bottom of the chamfer if one was made
- If not glued as explained above, apply a thick film of Newton 106 FlexProof to the joints of the profile as each length of profile is fitted into the joint
- When the ring or circuit is nearly complete, keep out one end of the profile and re-cut until the ends perfectly meet. Glue as above but carefully insert the last end immediately so that the glued joint cures when in place within the joint
- Carefully clean the profile with a damp cloth to remove excess Newton 106 FlexProof

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LIMITATIONS

- Do not install at temperatures lower than +1°C or higher than +35°C
- Do not install to wet substrate or when raining

STORAGE

Store inside and in dry conditions.

If these conditions are maintained the product has an unlimited shelf life.

HEALTH & SAFETY

Product should only be used as directed. The Material Safety Data Sheet (MSDS) should be carefully read prior to application of the material.

The MSDS is available upon request from Newton Waterproofing or online via our web site. Please see contact details below.

Use appropriate PPE for the environment the system is installed within. Use products only as stated within this Data Sheet and MSDS.

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

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