System 300

NEWTON 306 SWELLMASTIC

Swelling Adhesive Mastic

NEWTON
WATERPROOFING SYSTEMS
Protecting buildings since 1848

Rev 1.3 - 7 January 2015

PRODUCT CODE - SX306

INTRODUCTION

Newton 306 SwellMastic is a high-quality, firm, fast curing, swellable, single-component, polymeric adhesive sealant. The special composition of Newton 306 SwellMastic makes the sealant start to swell when in contact with water (to about 150% of original size).

The sealant has high elasticity and high adherence and it develops a strong adhesive tensile strength immediately after application. The first swelling is time delayed which allows Newton 306 SwellMastic to be applied to slightly damp surfaces.

Newton 306 SwellMastic is suitable for bonding Newton 303 PolyProof waterbars to concrete and steel as well as being a sealant for service protrusions through the structure.

TYPICAL APPLICATIONS

- As a swelling adhesive for the installation of Newton 303 PolyProof hydrophilic waterbars and Newton 305 ActiveJoint movement waterbars.
- Sealing of service protrusions through the structure.
- To further waterproof around pipes sealed with Newton 307 PipeSeal.

KEY BENEFITS

- Very high resistance to water pressure
- Delayed swelling - will not swell during the installation process or during the concrete cure
- Swells up to 150 times its original size to quickly seal leaks at joints in the structure
- Very resistance to the high alkalinity of concrete
- Maintains very high elasticity and tensile strength, even when swollen
- Age resistant, no embrittlement

NEWTON 306 SWELLMASTIC	
Material	Hydrophilic paste
Colour	White
Specific Gravity	1.4
Shore Hardness (Shore A)	30
E-modulous (N/mm^2)	0.7
Tensile Strength (N/mm^2)	1.2
Elasticity	300%
Swelling capability	Up to 150 times original size
Watertightness	1 bar
Installation Temperature	5C to 40°C
Service Temperature	-40°C to 100°C

SUITABLE SUBSTRATE & MATERIALS

- Concrete
- Steel
- Plastic
- Rubber

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 drawings available for download here Technical Drawings and a selection are also available via FastrackCAD

TRAINING & COMPETENCY OF USER

Newton 306 SwellMastic should be used 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 coordinated 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 BS8102:2009.

TOOLS REQUIRED

No special tools are required. Standard contractor tools are sufficient for the correct installation of the product.

CONSTRUCTION

The construction should conform with current Building Regulations, British Standards and relevant Codes of Practice.

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SURFACE PREPARATION

All surfaces must be thoroughly cleaned and free from laitance, loose material, dust, dirt, oil, grease, general grime, all contaminants, mould oil, etc. Please refer to the data sheet of product to be sealed or adhered with Newton 306 SwellMastic.

INSTALLATION

Apply Newton 306 SwellMastic in a bead of between 6mm and 10mm.

Where the mastic is to be used for adhering Newton 303 PolyProof, ensure that sufficient mastic is used so as to provide an even bed for the waterbar.

To service pipes, form a ring around the service penetration central to the joint and lap past the start of the bead by 100mm.

When used with 305 Active Joint spread the mastic to create a film of about 1mm in thickness to about a depth that is equal to the height of the profile being installed.

CONSUMPTION

Newton 306 SwellMastic 290ml Cartridge

- 20mm wide 303 PolyProof - 6 to 8 linear metres.
- 30mm wide 303 PolyProof - 5 linear metres.
- Newton 305 Active Joint - 4 linear metres.

Newton 306 SwellMastic 600ml Foil Sausage

- 20mm wide 303 PolyProof - 12 to 16 linear metres.
- 30mm wide 303 PolyProof - 10 linear metres.
- Newton 305 Active Joint - 8 linear metres.

STORAGE

Store in dry conditions between 5°C and 25°C.

SHELF LIFE

12 months.

PACKAGING

- Cartridges of 290ml
- Foil Sausages of 600ml

HEALTH & SAFETY

Product should only be used as directed. We always recommend that the Material Safety Data Sheet (MSDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The MSDS is available upon request from Newton Waterproofing Systems or online via our web site. Please see contact details below.

ASSOCIATED PRODUCTS

Newton 303 PolyProof - Range of hydrophilic waterbars for the sealing of concrete construction and movement joints.

Newton 305 ActiveJoint - MDPE physical waterbar able to resist high water pressure at active movement joints.

Newton 307 PipeSeal - Preformed MDPE seal that creates a physical, flanged joint around pipes passing through the structure. 306 SwellMastic should be used to reinforce the joint.

Newton 308 Stopaq - Hydrophilic polymer used for the sealing of services through the structure even when leaking with considerable water pressure.

NEWTON WATERPROOFING SYSTEMS

Newton System 100 - Cementitious waterproofing and repair products. *Type A - BS8102:2009*

Newton System 200 - Waterproofing of Decks and Flat Roofs.

Newton System 300 - Integral waterproofing of earth retained concrete structures. *Type B - BS8102:2009*

Newton System 400 - External waterproofing of earth retained structures. *Type A - BS8102:2009*

Newton System 500 - Internal cavity drain waterproofing of earth retained structures. *Type C - BS8102:2009*

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