

System 300

NEWTON 306 SWELLMASTIC

Swelling Adhesive Mastic

Rev 3.2 - 02 February 2017

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 200% 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 System 300](#) hydrophilic waterbars to concrete, plastics, ceramics and steel as well as being a sealant for service protrusions through the structure.

COVERAGE



PACKAGING



TYPICAL APPLICATIONS

- Detailing product for Newton 403 HydroBond
- As a swelling adhesive for the installation of Newton System 300 hydrophilic waterbars
- Sealing of service protrusions through the structure
- To further waterproof around pipes sealed with Newton 307 PipeSeal

SUITABLE SUBSTRATE

- Newton 403 HydroBond
- Concrete
- Steel
- Plastic
- Rubber

COLOUR

Grey.

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 200% of 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

METHOD OF APPLICATION

Standard mastic gun.

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 BS 8102:2009.



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TECHNICAL DATA

Features	Result
Material	Hydrophilic paste
Colour	Grey
Specific gravity	1.3
Tack free time (hours at 23°C and 60% RH)	< 8
Cured performance	Result
Tensile strength (MPa)	5.8
Elasticity	Up to 11 x initial size
Swelling capability	Up to 3.5 times initial size
Watertightness (bar)	1.0
Installation temperature (°C)	5 to 40
Service temperature (°C)	-40°C to 100°C

The above data, even if carried out according to regulated tests are indicative and they may change when specific site conditions vary.

LIFE EXPECTANCY

When specified, installed and protected in accordance with the Data Sheet, isolated from UV light, physical damage or wearing, and only to those substrates confirmed within, Newton 306 SwellMastic has a service life that can be equal to the design life of the structure.

PACKAGING

- Cartridges of 310 ml
- 24 cartridges per box

CONSUMPTION

Newton 306 SwellMastic 310ml Cartridge

- 20mm wide waterbar - 6.5 to 8.5 linear metres
- 30mm wide waterbar - 5.5 linear metres

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.

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. Abrade steel, and plastics.

Please refer to the data sheet of product to be sealed or adhered with Newton 306 SwellMastic.

APPLICATION

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

Where the mastic is to be used for adhering Newton System 300 hydrophilic waterbars, 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.

STORAGE

Store in dry conditions at temperatures between 5°C and 25°C with containers fully sealed. Do not expose to freezing conditions.

If these conditions are maintained and the product packaging is unopened, then a shelf life of up to 12 months can be expected.

LIMITATIONS

- Do not use as a swelling waterbar or as an expansion joint sealant
- Do not apply during or prior to rain
- Do not apply at temperatures lower than +5°C or higher than +35°C

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.