

HydroTank 306 Swell Mastic

Swelling Adhesive Mastic

Revision: 4.5 - 10th March 2022
Code: 306

INTRODUCTION

HydroTank 306 Swell Mastic is a high-quality, fast-curing, swelling, single-component, polymeric adhesive sealant. The special composition of HydroTank 306 Swell Mastic 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 HydroTank 306 Swell Mastic to be applied to slightly damp surfaces.

HydroTank 306 Swell Mastic is suitable for bonding [HydroTank 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 [HydroBond 403 Plus](#)
- As a swelling adhesive for the installation of HydroTank hydrophilic waterbars
- Sealing of service protrusions through the structure

SUITABLE SUBSTRATE

- HydroBond 403 Plus
- Concrete
- Steel
- Plastic
- Rubber

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

COLOUR

Grey.

METHOD OF APPLICATION

Standard mastic gun.

SPECIFICATION

Newton Waterproofing Systems work in partnership with RIBA NBS who publish our products on [NBS Source](#). The platform integrates seamlessly 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 & COMPETENCY OF USER

HydroTank 306 Swell Mastic 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 Technical Data Sheet, isolated from UV light, physical damage or wearing, and only to those substrates confirmed within this document, HydroTank 306 Swell Mastic has a service life that can be equal to the design life of the structure.

PACKAGING

- Cartridges of 310 ml
- 12 cartridges per box

CONSUMPTION

HydroTank 306 Swell Mastic 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.

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.

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 HydroTank 306 Swell Mastic.

APPLICATION

Apply Newton 306 HydroTank 306 Swell Mastic in a bead of between 6mm and 10mm.

Where the mastic is to be used for adhering HydroTank 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.

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

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HEALTH & SAFETY

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

Any specification/advice provided is only valid if used with products supplied by John Newton and Company Ltd (trading as Newton Waterproofing Systems). Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.