

System 400

NEWTON 404 HYDROBOND-LM

Seamless Rubber Waterproofing Membrane

Product Code - LM404

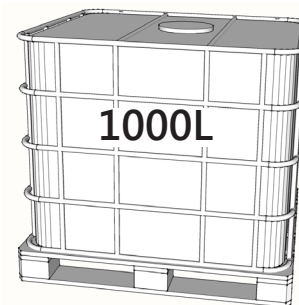
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Newton 404 HydroBond-LM is a spray applied, seamless, rubber waterproofing membrane for the external waterproofing of basements and foundation walls. Normally specified as part of our HydroBond System in conjunction with Newton 403 HydroBond, the membrane can also be used on its own, terminating to raft or strip foundations. HydroBond-LM is very quick to apply, up to 1000m² can be applied per day, and is not subject to delays normally associated with liquid membranes as it can be applied in cooler and damper conditions and without a primer.

METHODS OF APPLICATION



PACKAGING



COVERAGE

Generally: 1 l/m²
 Construction Joints: 2 l/m²
 Movement Joints: 2 l/m²

BENEFITS

- Fully bonded seamless membrane
- Very flexible (1,100% elasticity with 95% memory) and so can easily deal with movement and settlement
- No primer required
- Very quick to apply - up to 1000m² per day
- Cost efficient - Low price of the membrane coupled with high application rates = very low installed rate per square metre
- Solvent free, non-toxic and odourless
- Non-flammable - No VOCs

TYPICAL APPLICATIONS

- Waterproofing of basement walls as part of Newton HydroBond System sealing to [Newton 403 HydroBond](#) to form continuous membrane to the whole of the outside of the structure
- Stand-alone waterproofing membrane for basement, foundation and earth retained walls

SUITABLE SUBSTRATE

- Concrete
- Concrete block walls with flush pointing
- Insulated formwork walls (ICF)

PACKAGING

- 220 litre drums
- 1000 litre IBC

APPLICATION GUIDES

Application Guides that confirm the preparation of the substrate and the application of the product are available for the following applications:

- AG404-1 Application to concrete walls
- AG404-2 Application to block walls
- AG404-3 Application to ICF walls

Application Guides and MSDS can be found under the System 400 section of our website or this hyperlink: [Newton 404 HydroBond-LM](#).

PROTECTION OF THE MEMBRANE

Newton 404 HydroBond-LM must be protected prior to back-fill. Suitable protection includes:

- Protection board
- Suitable insulation
- [Newton 410 GeoDrain](#)

YIELD

- Main wall sections - 1kg/m², either in one coat or a combination of mist coat and main coat
- Construction joints - One coat of 2kg/m²
- Movement joints - One coat of 2kg/m² over a reinforcement band of [Newton 407 LM-Tape](#) bedded into [Newton 406 HydroBond-MA](#)
- Changes in direction - One coat of 1kg/m² over a reinforcement band of Newton 407 LM-Tape bedded into Newton 406 HydroBond-MA or one coat of 2kg/m² over a smoothing fillet

COLOUR

In packaging - Brown. Cured - Black

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TECHNICAL DATA

Features		Units
Yield	1	kg/m ²
Yield - Construction Joints - band of 250mm	1	kg/linear metre
Form	Liquid	
Colour	Brown	
Specific Gravity	1	
Thickness	1	mm
Thickness - Construction Joints	2	mm
Shelf Life	12	Months
Pot Life	N/A	
Application Temperature	+3 to +35	°C
Service Temperature	-15 to +40	°C
Packaging - Drum	220	Litres
Packaging - IBC	1000	Litres
Curing		Units
Ready For Next Coat (If flood coat used as primer)	30	Minutes
To Not Be Adulterated By Rain	2	Minutes
Ready For Foot Traffic / Protection	30	Minutes
Fully Cured	48	Hours
Cured Performance	Regulations	Units
Colour		Black
Adhesion To Concrete	ASTM C907 Amended to tensile	50 p.s.i.
Elongation		1,100 %
Tensile Strength	ASTM D412	22 p/s.i.
Hardness	Durometer	78-80 Shore OO
Water Vapour Transmission	ASTM E96	>6.6 ng/Pa.sm ²

STORAGE

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

ANCILLARY PRODUCTS

- Newton 403 HydroBond - self healing and fully bonded sheet membrane for below concrete rafts and slabs and to walls formed with permanent formwork
- Newton 405 HydroBond-HA - Hand applied version of 404 HydroBond used for detailing. UV Stable.
- Newton 406 HydroBond-MA - Trowel applied mastic used for bonding and preparation of substrate
- Newton 407 LM-Tape - Strengthening tape for changes in direction and joints
- Newton 410 Geodrain - Drainage membrane to move water around the structure on sloping sites. Can also be used as protection for all HydroBond Membranes

SPECIALIST TOOLS REQUIRED

Newton 404 HydroBond-LM is spray applied with a specialist spray machine. A nationwide network of trained applicators is in place.

TRAINING AND COMPETENCY OF THE USER

Newton 404 HydroBond-LM 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 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.

Newton 404 HydroBond-LM can only be sprayed by those who have access to a suitable spraying machine and have been trained in the use of the machine and how to spray the product correctly.

LIMITATIONS

Do not apply to frozen surfaces or during or immediately prior to heavy rain.

Newton Waterproofing Systems Is A Trading Name Of

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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](#)

HEALTH & SAFETY

Use product only as stated within the Application Guides. Read the MSDS before use.