

DATA SHEET

NEWTON 601 SLIMLINE

High Grade Flooring Membrane

Rev 2.1 - 8 October 2010

PRODUCT CODE - M6

INTRODUCTION

Newton 601 Slimline is a high-grade flooring membrane used primarily for isolating moisture sensitive flooring from dampness in the floor slab, but can also be used as the floor membrane as part of Newton System 500 when the survey has ascertained that no risk of water entering through the body of the slab exists.

Newton 601 Slimline allows for the installation of sensitive flooring to be laid above 'green' still curing concrete as soon as the concrete is walkable, usually two days, significantly reducing project times.

With a loading capability of over 1000kN/m^2 , Newton 601 Slimline able to resist very high compressive loading and is suitable for use as a high load DPC within structural block walls, especially when used to connect the wall and floor membranes within Newton System 500.

Newton 601 Slimline is guaranteed against deterioration for 30 years, and has a life expectancy of at least 50 years (DIN 9001:2000). Newton 601 Slimline is inert and is highly resistant to water, alkalies, hydro-carbons, saline solutions and organic acids, and it is not effected by minerals. It is also resistant to bacteria, fungi and other small organisms.



KEY BENEFITS

- A tough damp-proofing membrane that can be laid on top of damp concrete floors or newly laid floor slabs
- Thicker than conventional damp proofing membranes
- Cost-effective, fast and safe installation.
- Recycled material in centre layer
- Good sound proofing capabilities
- Easy to join using Newton Waterseal sealing tape
- Patented 'X' pattern allows for vapour movement and vapour equalisation allowing the drying of the damp floor

NEWTON 601 SLIMLINE

Width (m)	2.08
Length (m)	20.00
Area (m ²)	41.60
Weight (kg)	19.00
Colour	Grey
Raw material	High Density Polypropylene
Thickness (mm)	0.50
Stud height (mm)	1.00
Compressive strength	>1000 kN/m ²
Vapour permeability	0.046g/m ² x hr x mmHg
Thermal resistance	0.078m ² K/W
Thermal conductivity	0.461 W/m K
Air volume between studs	0.41 litres/m ²
Vicat softening temperature	148 °C

All technical data stated herein is based on test results carried out under laboratory conditions

TYPICAL APPLICATIONS

- To protect flooring from not yet cured slabs
- Above contaminated floors
- High grade DPM
- As the damp-proof floor membrane for use with Newton System 800 damp-proofing wall membranes
- Can be used as the flooring membrane within a Newton System 500 waterproofing specification if specified by a trained waterproofing surveyor (see Limitations below)

SUITABLE FLOOR COVERINGS

- Screed
- Tongue & groove particle boards
- Laminate flooring
- Sports floors
- Moisture sensitive timber flooring

FLOOR PREPARATION

- Brush the floor clean
- Remove snots and any sharp protrusions
- Fill all non-structural cracks above 1mm wide
- All structural cracks should be repaired or treated
- Any holes or indentations should be filled with a suitable filler

INSTALLATION

The membrane is rolled out along the longest dimension of the floor with the grooved surface facing downwards. Subsequent lengths of membrane are rolled out and slightly overlapped and taped to form a continuous flooring membrane. 100mm of excess membrane is folded up to the walls to create an upturn so that all floor finishes are isolated from dampness to the walls.

- Start with the flange (80mm flat section to one edge of the roll) at either one of the two longest walls
- Roll out the first length of membrane and cut a length of membrane off the roll that is 200mm longer than the room length
- Make a fold 100mm from the edge closest to the wall and lap to the long wall to form an upturn
- Roll out consecutive further rolls so that the flange is overlapping the already laid membrane by 80mm. Continue until the whole of the area to be treated is covered
- Clean the flange and the top surface where the seal is to be made with a clean rag and cleaning alcohol. In cold and humid conditions a heat-gun may be required to carefully 'burn' off the surface moisture
- Apply Newton Waterseal tape to the underside of the flanged areas where they overlap the previous sheet of membrane. Leave the white backing tape in place



- Align the lengths of membrane so they are perfectly parallel to each other. Use the lines on the membrane as a guide
- Carefully remove the backing paper of the Waterseal Tape and at the same time press the top sheet into the bottom sheet to form the seal. Continue to the whole length and to all overlapping lengths of membrane
- After the last length has been sealed to the subsequent lengths, cut the last length to size so that it fits the room space correctly, ensuring that a 100mm surplus is available for lapping up the wall as an up-stand
- Ensure the membrane is flat to the whole surface area and then create the last upstand to the second of the longer walls. Trim the up-stand to 100mm to all upstands

- Fold the membrane to form the corners. This is done by folding the corner at 45 degrees and then folding this behind one of the up-stands (see image below)
- Seal around protrusions with Newton Mesh Tape or Newton Overtape



- Lay flooring above

NOTE: The weight of the flooring may slightly displace the membrane to the walls. The membrane may need to be refolded and trimmed at the walls as the floor finish is laid

LIMITATIONS

- Not suitable to be used as part of a Newton System 500 waterproofing specification unless the floor has been determined by a qualified person as not been at risk to leakage through the slab or raft. Where this cannot be positively determined use Newton 503, 508 or 520 as the floor membrane
- If the flooring has to be bonded to the membrane, use Newton 603 Mesh
- If the flooring has to be bonded to a bonded membrane, use Newton 603 Bonded Mesh

PACKAGING

Newton 601 Slimline is supplied in rolls of 2.08m x 20m).

STORAGE

Newton 601 Slimline should be stored with the rolls standing up on end and away from direct sunlight

REQUIRED ANCILLARY PRODUCTS

- Newton Waterseal Tape - Product Code A5
- Newton Mesh Tape - Product Code A25 or Newton Overtape - Product Code A7 or A8

HEALTH & SAFETY

Newton 601 Slimline 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 John Newton or online via our web site. Please see contact details below.