System 600
NEWTON 601 SLIMLINE
High Grade Flooring Membrane

JN NEWTON WATERPROOFING

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PRODUCT CODE - M6

NEWTON SYSTEM 600 – SHEET FLOORING MEMBRANES

PRODUCT OVERVIEW

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

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 is 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 affected by minerals. It is also resistant to bacteria, fungi and other small organisms.

Newton 601 Slimline can be finished over with screed, 18mm or 22mm T&G chipboard or partical board. Laminate and timber flooring should be installed over a layer of 18mm or 22mm T&G chipboard.

TYPICAL APPLICATIONS

- To protect flooring from not yet cured slabs
- Above contaminated floors
- As a 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

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

KEY BENEFITS

- Can be installed above slabs that are not yet cured, and as soon as the concrete is walkable
- Able to resist very high compressive loading, with capability of over 1000kN/m^2
- Can be installed as a high-load DPC within structural block walls
- Inert and highly resistant to water, alkalies, hydro-carbons, saline solutions and organic acids
- Not affected by minerals, and resistant to bacteria, fungi and other smal organisms

SUITABLE FLOOR COVERINGS

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

FLOOR PREPARATION

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

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TECHNICAL DATA

Features	Result	Units
Material	HDPP	
Colour	Grey	
Density	470	g/m^2
Width	2.08	m
Length	20.0	m
Area	40	m^2
Stud depth	1.0	mm
Height	2.0	mm
Vicat softening temperature	148	°C
Packaged weight	19.75	kg
Service temperature	-20 to +80	°C

Installed Performance	Result	Units	Test Method
Compressive strength	> 1000	kPa	SPF VN 2200
Compressive strength – Permanent loading	100	kPa	EN ISO 25619-1
Thermal conductivity	0.480	W/mK	EN 12667
Water vapour diffusion resistance – Sd value	200	m	BS EN 1931
Water vapour diffusion resistance – µ value	400000	µ	Calculated from SD value
Water vapour diffusion resistance	1000	MNs/g	Calculated from SD value
Resistance to fire	Euroclass F		BS EN 13501-1
Chemical resistance – Excellent	Good		EN 1296 & EN 1928 B

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our website for the latest versions.