

System 600

NEWTON 603

High Grade Flooring Membrane

Rev 5.1 - 7 January 2016

PRODUCT CODE - M19, M23

PRODUCT OVERVIEW

Newton 603 is a high quality flooring membrane suitable for use above new and existing floors. The 3mm studs allow for pressure equalisation of dampness within the floor below, allowing for dissipation at the room perimeter and subsequent drying of the floor.

The studs also give slight compression to footfall, making the floor very responsive, comfortable and ideal as the floor membrane for performance sports floors.

Newton 603 uncouples the floor finish from the substrate so that movement is not transferred to the floor finish above. The membrane also bridges small cracks, allowing for quick floor installation above less than ideal substrate.

Newton 603 is guaranteed against deterioration for 30 years, and has a life expectancy of at least 50 years (DIN 9001:2000) and is inert with high compressive loading stability. It is highly resistant to water, alkalies, saline solutions and organic acids, and it is not effected by minerals. It is also resistant to bacteria, fungi and other small organisms.

Newton 603 can be finished over with screed, plyboard or partical board. Laminate and timber flooring should be installed over a layer of 18mm or 22mm plyboard.

TYPICAL APPLICATIONS

- As a damp proof flooring membrane
- As the membrane of choice for performance sports floors
- 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

KEY BENEFITS

- Does not transfer substrate movement to the floor finish above
- Has a high compressive loading stability
- Slight compression under footfall makes it ideal for installation as the floor membrane for performance sports floors
- Inert and highly resistant to water, alkalies, hydrocarbons, saline solutions and organic acids
- Not affected by minerals, and resistant to bacteria, fungi and other small organisms

REQUIRED ANCILLARY PRODUCTS

- Newton [Waterseal Rope](#) - A6 - For sealing around protrusions through the membrane
- Newton [Overtape](#) - A8 - For membrane jointing

SUITABLE FLOOR COVERINGS

- Non-bonded floor finishes, including laminate and timber floorings, and particle and ply floorboards



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](#)

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TECHNICAL DATA

Features	Result	Units
Material	HDPE	
Colour	White/Translucent	
Density	500	g/m ²
Width (M19 / M23)	1.0 / 2.0	m
Length (M19 / M23)	10.0 / 20.0	m
Area (M19 / M23)	10 / 40	m ²
Stud depth	2.4	mm
Height	2.93	mm
Vicat softening temperature	126	°C
Packaged weight	23.0	kg
Service temperature	-40 to +80	°C

Installed Performance	Result	Units	Test Method
Thickness at 100 kPa	2.64	mm	EN ISO 25619-1
Compressive strength – Temporary loading	>320	kPa	EN ISO 25619-2
Compressive strength – Permanent loading	100	kPa	EN ISO 25619-1
Thermal conductivity	0.461	W/mK	EN 12667
Water vapour diffusion resistance – Sd value	>604	m	BS EN 1931
Water vapour diffusion resistance – μ value	>1208000	μ	Calculated from SD value
Water vapour diffusion resistance	>3020	MNs/g	Calculated from SD value
Resistance to fire	Euroclass E		BS EN 13501-1
Chemical resistance – Excellent	100	%	EN14030
Oxidation resistance – Excellent	100	%	EN ISO 13438

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