

# DAMPSAFE 603

## High Performing Flooring Membrane

[Newton DampSafe 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.

DampSafe 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.

DampSafe 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.

DampSafe 603 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

- 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 Damp Proofing Products](#) 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 smal 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 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](#).

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TECHNICAL DATA			
Features	Result	Units	
Material	HDPE		
Colour	White/Translucent		
Density	500	g/m <sup>2</sup>	
Width	2.0	m	
Length	20.0	m	
Area	40	m <sup>2</sup>	
Stud depth	2.5	mm	
Height	3.0	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
Thermal conductivity	0.461	W/mK	EN 12667
Water vapour diffusion resistance – Sd value	>604	m	BS EN 1931
Water vapour diffusion resistance – $\mu$ value	>1208000	$\mu$	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