

# DampSafe 601 Slimline

## High Grade Flooring Membrane

### PRODUCT OVERVIEW

*DampSafe 601 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 [System 500](#), when the survey has ascertained that there is no risk of water entering through the body of the slab.*

*DampSafe 601 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<sup>2</sup>, DampSafe 601 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 System 500.*

*DampSafe 601 is guaranteed against deterioration for 30 years and has a life expectancy of at least 50 years (DIN 9001:2000) DampSafe 601 is inert and is highly resistant to water, alkalis, 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.*

*DampSafe 601 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 [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 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](#).

### 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<sup>2</sup>
- Can be installed as a high-load DPC within structural block walls
- Inert and highly resistant to water, alkalis, hydro-carbons, saline solutions and organic acids
- Not affected by minerals, and resistant to bacteria, fungi and other small 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 <sup>2</sup> |
| Width                       | 2.08       | m                |
| Length                      | 20.0       | m                |
| Area                        | 40         | m <sup>2</sup>   |
| 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 – $\mu$ value | 400000      | $\mu$ | 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      |

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