

# PermaSEAL 3 Mesh

## Cavity Drain Membrane



### Description

PermaSEAL 3 Mesh is a translucent high-density polyethylene (HDPE) membrane for damp proofing and waterproofing walls and ceilings in new or existing buildings. It can be used above or below ground, over a contaminated or damp background, to support dot and dab plasterboard or a render system. The system is approved for use in Type C (drained protection) constructions in accordance with BS 8102:2022.

PermaSEAL 3 Mesh is guaranteed against deterioration for 30 years and has a life expectancy equal to the design life of the structure (DIN 9001:2000). The membrane must have permanent protection from UV light and physical damage, along with the correct specification and installation in order to achieve the life expectancy.

PermaSEAL 3 Mesh is an inert product with high compressive loading stability. It is highly resistant to water, alkalis, saline solutions and organic acids and is not affected by minerals. It is also resistant to bacteria, fungi, and other small organisms.

When a below ground waterproofing system is specified it is essential the cavity drain system incorporates the PermaSEAL drainage system including sump and pump system.

Consult technical department for below ground use.

All Permagard products are of a high quality and subject to rigid quality control. The company, however, cannot govern the conditions of usage and application of its products and any warranty, written or implied covers material only. The information contained in this leaflet is given in good faith but no liability can be assumed by the Company for any damage, loss, injury or patent infringement arising from its use.

### Features

- Minimal wall surface preparation required
- Quick & easy application to most surfaces
- Easy to form around doors, windows and services
- Waterproof, vapour resistant, salt resistant, rot resistant, contaminant and chemical resistant

### Technical Details

<i>PermaSEAL 3 Mesh</i>	<b>Technical Details</b>
<i>Membrane</i>	HDPE approx. 500g/m <sup>2</sup>
<i>Composition</i>	100% Virgin HDPE
<i>Mesh</i>	HPDE
<i>Stud height</i>	Approx. 3mm
<i>Total weight</i>	Approx. 500g/m <sup>2</sup>
<i>Number of studs</i>	2500/m <sup>2</sup>
<i>Compressive strength</i>	Approx. 180kN/m <sup>2</sup>
<i>Colour</i>	Translucent
<i>Water drainage capacity</i>	Approx. 0.86 l/s m
<i>Roll length</i>	10, 20m
<i>Roll width</i>	1m, 1.2m, 2m
<i>Air volume between studs</i>	Nominal
<i>Temperature resistance</i>	-30 ° C to +80 ° C
<i>Chemical properties</i>	Chemical resistant
<i>Physical properties</i>	Safe for drinking water
<i>Fire resistance</i>	Class E.

### Accreditations

PermaSEAL 3 Mesh is part of the PermaSEAL Waterproofing System. The product is CE marked to the relevant standard.

## Installation

Please see separate installation guide.

## Finishing

PermaSEAL 3 Mesh should always be protected by suitable surface finishes.

### Wall / Ceiling finishes

When fixed to walls and vaulted ceilings with the PermaSEAL Plaster Plug or PermaSEAL Brick Plug the membrane can be finished with the following systems:

- Dot and dab plasterboard (minimum of 50% board coverage with dab)
- Direct render and plaster finish

## Storage

Store upright in dry conditions at temperatures between 5°C and 25°C. Do not expose to freezing conditions or direct sunlight. Protect from UV.

## Health & Safety

Please use the product only in accordance with the information given in this datasheet and the installation guide. There is no legal requirement for a Safety Data Sheet for this product.

## Further Information

As part of our complete cavity drain system, PermaSEAL 3 Mesh complies with BS 8102:2022 to provide Type C drainage protection capable of creating a Grade 3 environment suitable for domestic and commercial use.

It is essential when complying with BS 8102:2022 creating a grade 3 environment that the cavity drain membranes are used in conjunction with the PermaSEAL range of maintainable drainage channels and pumping systems. Alternatively, gravity drainage is acceptable on a sloping site.

It is imperative that all drainage systems are fully maintained throughout their lifetime.

**Note:** Although this product can be used below ground we recommend you consult our technical team before specifying this product as it is designed for areas that have been assessed as low risk.