

# PermaSEAL 8 Eco X

## Cavity Drain Membrane



### Description

PermaSEAL 8 Eco X is a 100% recycled polyethylene (HDPE) membrane for damp proofing and waterproofing walls, floors and ceilings in new or existing buildings. It can be used above or below ground, over a contaminated or damp background, to support a dry lining or flooring system. The system is approved for use in Type C (drained protection) constructions in accordance with BS 8102:2022.

PermaSEAL 8 Eco X 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 8 Eco X 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.

### Features

- 8mm stud depth providing 5.3 litres of drainage volume per m<sup>2</sup>
- High compressive load bearing strength 400kN/m<sup>2</sup>
- Manufactured from 100% recycled HDPE
- Waterproof, salt-resistant, root-resistant, contaminant-resistant
- Easy to bend, form around windows, doors, vaulted ceilings etc
- Easy to cut with scissors
- Low & high temperature tolerances
- Resistant to bacteria, fungi, and other small organisms

### Technical Details

<i>PermaSEAL 8 Eco X</i>	<b>Technical Details</b>
<i>Membrane</i>	HDPE approx. 650g/m <sup>2</sup>
<i>Composition</i>	100% Recycled HDPE
<i>Stud height</i>	Approx. 8mm
<i>Total weight</i>	Approx. 650g/m <sup>2</sup>
<i>Number of studs</i>	1710/m <sup>2</sup>
<i>Compressive strength</i>	Approx. 400kN/m <sup>2</sup>
<i>Colour</i>	Black
<i>Water drainage capacity</i>	Approx. 5.3 l/s m
<i>Roll length</i>	20m
<i>Roll width</i>	2m
<i>Air volume between studs</i>	Approx. 4.5 l/m <sup>2</sup>
<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 8 Eco X is part of the PermaSEAL Waterproofing System. The product is CE marked to the relevant standard.

## Installation

Please refer to our Installation Guide.

## Finishing

PermaSEAL 8 Eco X should always be protected by suitable surface finishes.

### Wall / Ceiling finishes

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

- Batten and board (fixed to the plug heads)
- Independent stud wall, timber frame or metal track
- Independent masonry wall

### Floor finishes

When laid over a concrete floor the membrane can be finished with the following methods:

- Screed (65mm min)
- Tongue and groove flooring with insulation spacer between membrane and boards
- Timber floor supported by a fixed lattice of timber supports
- Insulation with screed or tongue and groove flooring above
- Underfloor heating tray with screed above

## 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 8 Eco X 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.

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