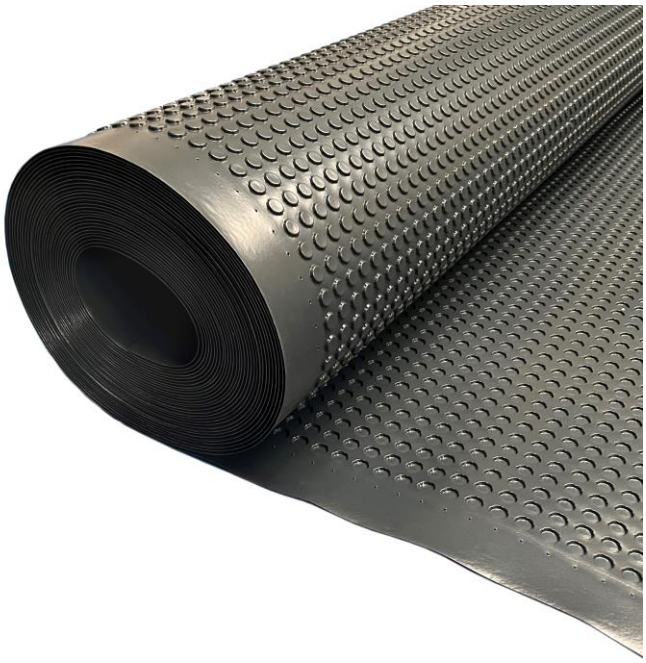
PermaSEAL 3 Eco Floor

Cavity Drain Membrane



Description

PermaSEAL 3 Eco Floor is a high quality, slimline floor membrane designed for damp proofing floors in new or existing buildings. It can be used above ground, over a contaminated or damp background before flooring systems are installed. The system is approved for use in Type C (drained protection) in accordance with BS 8102:2022.

PermaSEAL 3 Eco Floor is guaranteed against deterioration for 30 years and has a life expectancy equal to the design life of the structure. 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 Eco Floor 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.

PermaSEAL 3 Eco Floor should only be used below ground when the survey has determined there is no risk of water entering through the body of the slab. 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

- Can be installed above slabs that are not yet cured, and as soon as the concrete is walkable
- High compression strength over 320kN/m²
- Quick & easy application to most surfaces
- Easy to form around corners
- Waterproof, vapour resistant, salt resistant, rot resistant, contaminant and chemical resistant
- Minimal effect on floor levels

Technical Details

PermaSEAL 3 Eco Floor	Technical Details
Membrane	HDPE approx. 500g/m²
Composition	100% Recycled HDPE
Stud height	Approx. 3mm
Total weight	Approx. 500g/m²
Number of studs	Approx. 2500 m²
Compressive strength	Approx. 320kN/m²
Colour	Grey / Black
Water drainage capacity	Approx. 0.86 l/s m
Roll length	20m
Roll width	2m
Air volume between studs	Nominal
Temperature resistance	–30 ° C to +80 ° C
Chemical properties	Chemical resistant
Physical properties	Safe for drinking water
Fire resistance	Class E

Accreditations

PermaSEAL 3 Eco Floor is part of the PermaSEAL Waterproofing System. The product is CE and UKCA marked to the relevant standard.

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Installation

Please see separate installation guide.

Finishing

PermaSEAL 3 Eco Floor should always be protected by suitable surface finishes.

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 3 Eco Floor 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 and 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 very low risk.

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