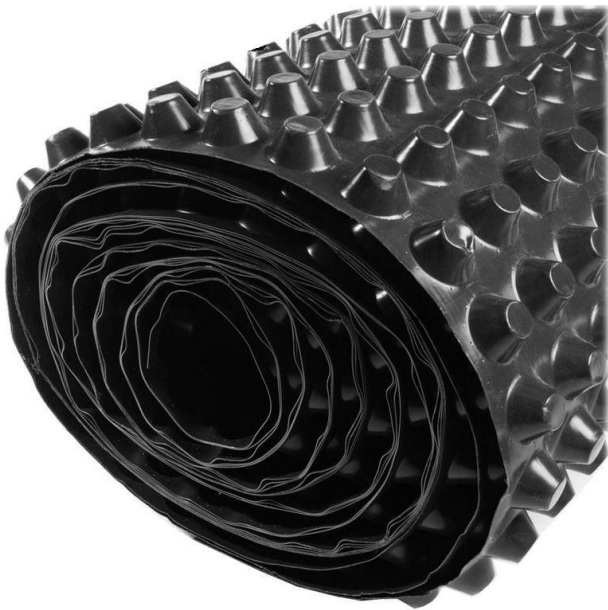


PermaSEAL 20

Cavity Drain Membrane



Description

PermaSEAL 20 is a high-density polyethylene (HDPE) membrane for damp proofing and waterproofing walls, floors and vaulted ceilings that require a large air gap for a high-drainage volume in new or existing buildings. The system is approved for use in Type C (drained protection) constructions in accordance with BS 8102:2009.

PermaSEAL 20 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 20 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

- BBA Approved System.
- 20mm stud depth providing 14 litres of drainage volume per m².
- High compressive load bearing strength 150kN/m².
- Waterproof, salt-resistant, root-resistant, contaminant-resistant.
- Easy to cut with scissors.
- Low & high temperature tolerances.
- Resistant to bacteria, fungi, and other small organisms.

Technical Details

Material	High Density Polyethylene
Size	2m x 10m, 2m x 20m
Colour	Black
Coverage	20m ² , 40m ²
Compressive strength	>150kN/m ²
Stud height	20mm
Membrane thickness	≥ 0.55 mm
Air gap volume	14L/m ²
Drainage capacity	14L/sec/m ²
Vicat softening temp	126°C
Density	≥ 800g/m ²
Weight	20kg, 40kg
Temp range	-30°C to +80°C
Resistance to fire	Euroclass F, BS EN 13501-1

Accreditations

PermaSEAL 20 is part of the PermaSEAL Waterproofing System which is independently tested and certificated by the BBA. The product is also CE marked to the relevant standard.



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.

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Installation

Please refer to BBA certificate or Installation Guide.

Finishing

PermaSEAL 20 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:

- 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. Please refer to the Material Safety Datasheet for further information.

Further Information

As part of our complete cavity drain system, PermaSEAL 20 complies with BS 8102:2009 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 8102:2009 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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Associated Products

- **PermaSEAL Brick Plug and PermaSEAL Quick Plug** - plugs for fixing the membrane to brick and stone. The plugs have a pre-formed hole permitting subsequent stud fixings to be inserted without breaching the membrane
- **PermaSEAL Sealing Tape** - butyl rubber tape for sealing joints in the membrane
- **PermaSEAL Rope** - butyl rubber beading for sealing joints in the membrane and sealing the membrane around pipes and openings, and to form a gasket between the PermaSEAL Brick Plug or PermaSEAL Quick Plug and the membrane
- **PermaSEAL Corner Strip and PermaSEAL Over Tape** - a self-adhesive membrane strip for sealing joints in the membrane and for use around services, penetrations and edge details, and between wall and floor membranes
- **PermaSEAL Drainage Channel, Floordrain** - for removal of water to evacuation points
- **PermaSEAL Sump and Pump Systems**- for evacuating water ingress to a controlled area