

# PermaSEAL 20P Green Roof Drainage & Storage Membrane



## Description

PermaSEAL 20P Green Roof is a high quality HDPE drainage and water storage membrane suitable for use in extensive and intensive green roof applications and other walkable surfaces. The membrane incorporates a bonded geotextile filter layer to provide a 20mm cavity that is protected against soil obstruction and can store a large amount of water. The HDPE membrane is perforated to allow water to pass through to the drainage space below, preventing saturation of the sedum or grass above.

PermaSEAL 20P Green Roof is guaranteed against deterioration for 30 years and has a life expectancy equal to the design life of the structure (DIN 9001:2000). PermaSEAL 20P Green Roof is an inert product and 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.

Typically PermaSEAL 20P Green Roof is used as a water storage and drainage layer in conjunction with a primary waterproof coating above decks, flat roofs and pitched roofs. As the membrane is perforated it is also suitable for inverted warm roof application.

## Benefits

- Integrated geotextile fabric firmly bonded to the membrane to prevent slip and compression into storage cups
- Geotextile filter layer prevents siltation of the studs
- Tough and durable
- Easy to install
- High compressive strength
- Manageable roll size/weight for one person
- Bonded geotextile filter layer saves time on installation compared with loose laid geotextile

## Technical Details

Material	High Density Polyethylene
Size	1.9m x 10m
Colour	Black
Coverage	19m <sup>2</sup>
Compressive strength	>150kN/m <sup>2</sup>
Stud height	20mm
Membrane thickness	≥ 1mm
Air gap volume	6.5L/m <sup>2</sup>
Drainage capacity	7.1L/sec/m <sup>2</sup>
Vicat softening temp	126°C
Density	≥ 1kg/m <sup>2</sup>
Weight	19kg
Temp range	-30°C to +80°C
Resistance to fire	Euroclass F, BS EN 13501-1

## Associated Products

- PermaSEAL Jointing Tape – for sealing overlap membrane joints
- PermaSEAL Separation Layer – used as a slip layer/root barrier between the primary waterproofing and PermaSEAL 20P Green Roof
- MB2K Flexible Waterproofing Compound – the primary waterproofing applied directly to the concrete deck/screed
- Kiesol Waterproofing Primer – primer applied prior to MB2K application

## **Storage**

Store in cool, dry conditions. Do not expose to direct sunlight or freezing conditions.

## **Health and 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**

PermaSEAL 20P Green Roof is suitable for various types of installation and it is imperative that the membrane is specified in the correct detail as part of a wider waterproofing and drainage system. This is not a waterproof membrane. Please contact our technical department if at all unsure as to its suitability.