

PermaSEAL 1 Floor

Description

PermaSEAL 1 Floor Membrane is a high-grade flooring membrane used primarily for isolating moisture sensitive flooring from dampness in the floor slab, but can also be used as the floor membrane as part of a waterproofing system when the survey has ascertained that no risk of water entering through the body of the slab exists.

PermaSEAL 1 Floor Membrane allows for the installation of sensitive flooring to be laid above 'green' still curing concrete as soon as the concrete is walkable, usually two days, significantly reducing project times.

With a loading capability of over 1000kN/m², PermaSEAL 1 Floor Membrane is able to resist very high compressive loading and is suitable for use as a high load DPC within structural block walls, especially when used to connect the wall and floor membranes within a PermaSEAL cavity drain system.

PermaSEAL 1 Floor Membrane is guaranteed against deterioration for 30 years, and has a life expectancy of at least 50 years (DIN 9001:2000).

PermaSEAL 1 Floor Membrane is inert and is highly resistant to water, alkalis, hydro-carbons, saline solutions and organic acids, and it is not effected by minerals. It is also resistant to bacteria, fungi and other small organisms.



Applications

- To protect flooring from not yet cured slabs
- Above contaminated floors
- High grade DPM
- As the damp-proof floor membrane for use with PermaSEAL damp proofing wall membranes

Suitable Floor Coverings

- Screed
- Insulation
- Tongue & groove particle boards
- Laminate flooring
- Sports floors
- Moisture sensitive timber flooring

Technical Details:	
Size:	2.08m x 20m
Colour:	Grey
Material:	High Density Polypropylene
Weight:	450g/m ²
Coverage:	40-41.6m ²
Compressive Strength:	>1000kN/m ²
Stud Depth:	Approx. 1mm
Studs per m²	N/A
Sheet Thickness:	Approx. 0.5mm
Air Gap between Studs:	0.41 Litres/m ²
Vicat Softening Temp:	148 °C

Preparation

Brush the surface clean. Remove snots and any sharp protrusions. Fill all non-structural cracks above 1mm wide. All structural cracks should be repaired. Any holes or indentations should be filled with a suitable Filler.

Installation

The membrane is rolled out along the longest dimension of the floor with the grooved surface facing downwards. Subsequent lengths of membrane are rolled out and slightly overlapped and taped to form a continuous flooring membrane. 100mm of excess membrane is folded up to the walls to create an upturn so that all floor finishes are isolated from dampness to the walls.

- Start with the flange (80mm flat section to one edge of the roll) at either one of the two longest walls
- Roll out the first length of membrane and cut a length of membrane off the roll that is 200mm longer than the room length
- Make a fold 100mm from the edge closest to the wall and lap to the long wall to form an upturn
- Roll out consecutive further rolls so that the flange is overlapping the already laid membrane by 80mm. Continue until the whole of the area to be treated is covered
- Clean the flange and the top surface where the seal is to be made with a clean rag and cleaning alcohol. In cold and humid conditions a heat-gun may be required to carefully 'burn' off the surface moisture
- Apply PermaSEAL Tape to the underside of the flanged areas where they overlap the previous sheet of membrane. Leave the white backing tape in place



- Align the lengths of membrane so they are perfectly parallel to each other. Use the lines on the membrane as a guide
- Carefully remove the backing paper of the Tape and at the same time press the top sheet into the bottom sheet to form the seal. Continue to the whole length and to all overlapping lengths of membrane
- After the last length has been sealed to the subsequent lengths, cut the last length to size so that it fits the room space correctly, ensuring that a 100mm surplus is available for lapping up the wall as an up-stand

- Ensure the membrane is flat to the whole surface area and then create the last upstand to the second of the longer walls. Trim the up-stand to 100mm to all upstands
- Fold the membrane to form the corners. This is done by folding the corner at 45 degrees and then folding this behind one of the up-stands (see image below)
- Seal around protrusions with Tape or Corner Strip.



- Lay flooring above the membrane

NOTE: The weight of the flooring may slightly displace the membrane to the walls. The membrane may need to be refolded and trimmed at the walls as the floor finish is laid.

Storage

PermaSEAL 1 Floor should be stored with the rolls standing up on end and out of direct sunlight.

Associated Products:

- PermaSEAL Tape - for sealing between membrane joints
- PermaSEAL Overtape - for sealing over membrane joints
- PermaSEAL Corner Strip – for sealing wall/floor joints or protrusions through the membrane

Note: All cavity drain membranes should be permanently protected against UV Light. Failure to do this will dramatically decrease the service life of the product.



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