

Technical Data Sheet

PLATINUM CV20 MEMBRANE

20mm Stud Cavity Drain Waterproofing Membrane



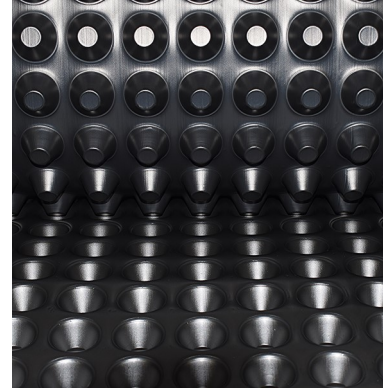
Description:

Platinum CV20 is a Cavity Drain Waterproofing Membrane made from High Density Polyethylene (HDPE).

With its 20mm deep stud profile, Platinum CV20 is used as a high drainage capacity floor membrane and is generally specified where it is anticipated that there may be a risk of severe water penetration.

Platinum CV20 is guaranteed against deterioration for 30 years, with a life expectancy of at least the design life of the building (DIN 9001:2000).

Platinum CV20 is inert and, therefore, non-polluting to drinking water, highly resistant to water, alkalis, saline solutions and organic acids, and not affected by minerals and hydro-carbons. It is also impervious to root penetration, is rot-proof, and resistant to bacteria, fungi and other small organisms.



Benefits:

- Speed of installation
- Made from 100% recycled HDPE
- Resistant to rot, chemically aggressive groundwater, acids and alkalines, efflorescing salts and hydrocarbon contamination

Preparation:

When used in new construction, the concrete slab must be laid in accordance with BS 8204-1:2003+A1:2009 to achieve a flat surface not deviating more than 5mm from the underside of a 3000mm straight edge.

Platinum CV20 is recommended for use only on floors. Before the system is installed, the area must be assessed to determine what preparation is required:

All timber and other organic material must be removed to prevent risk of fungal or bacterial growth behind the System. If evidence of rot exists, this must be dealt with by a specialist contractor prior to installation of the system (See our Woodworm & Dry Rot Control Products).

Unsound plaster, render or screed should be removed and surfaces made level, with floors to the above tolerances. This can be achieved using **Universal Mortar**, or a 3:1 sand:cement mix incorporating **Renderproof** Waterproofing Additive (See separate Data Sheets).

Brush the floor clean and remove any sharp protrusions. Fill all non-structural cracks above 1mm wide, all structural cracks should be repaired or treated.

New concrete should be treated with **Platinum Lime Inhibitor** which prevents free lime from the curing concrete being drawn out by ingressing water.

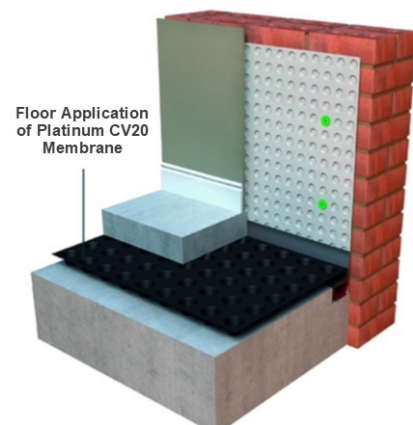
Installation:

It is very rare for water to pass through a solid concrete slab or concrete raft, but where the slab or raft is of questionable quality it is possible for water to pass through cracks in a poorly constructed floor. If the quality of the slab is questionable, Platinum CV20 should be used as the floor membrane.

Starting at one side of the room, unroll the membrane with the studs down and cut to fit the room as one would a carpet. The next membrane width is rolled out so that the flanged edge overlaps onto the edge of the previous roll of membrane. Clean both edges.

Platinum Waterseal Tape is then applied to the high flat area between the first two studs at the edge of the previous roll of membrane with the backing paper still intact.

Check the two widths for alignment, with the flange covering the backing paper.



Installation (Continued):

Starting from the end of the joint, remove the backing paper and press down on the joint sealing the two sections together. This process is repeated until all areas are covered. Seal the Platinum CV20 Membrane to the up-stand of the perimeter drainage channel (i.e Triton® Aqua Channel / Newton® Basedrain) with Platinum Corner Strip / Overtape.

Where the floor membrane is required to be jointed to horizontal DPC's through internal and external walls, these joints should be sealed with Platinum Waterseal Tape. Ensure both surfaces are clean and dry before attempting to make these joints.

It is very rare If there are any services up through the floor, the membrane can be cut and trimmed around them, and the gap filled and sealed using a high quality MS or SMX Polymer Adhesive.

If necessary, a patch of membrane or plain DPC is laid over and sealed to the service with Platinum Waterseal Rope, and around its perimeter with Platinum Waterseal Tape.

It should be noted that protrusions through the floor slab/raft should be avoided wherever possible as they create weaknesses that allow unnecessary water ingress.

Finishing:

The specified floor finish can now be laid directly over the floor membrane, which must not be punctured by any fixings through the floor.

When a timber floor finish is preferred you must allow an expansion gap around the wall edge. Speak to the supplier of the floor finish to confirm the correct size of this expansion gap

Technical Data:

Membrane Material	HDPE
Membrane Thickness	1.0mm
Stud Depth	20.0mm
Density	1000g/m ²
Softening Temperature	126°C
Service Temperature	-50°C to +80°C
Resistance to Static Loading (BS 12730)	20Kg
Tensile Strength MD (BS 12311-2)	416 N
Tensile Strength CD (BS 12311-2)	488 N
Water Vapour Diffusion Resistance	>3020 MNs/g
Resistance to Fire (BS EN 13501-1)	Class F

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