



PLATON P20 MEMBRANE

DESCRIPTION

The Platon P20 Membrane is manufactured from black high-density polyethylene (PEH). It is impermeable and resistant to the usual chemicals in the building construction.

When the product acts as a damp proof membrane, both the product and floor coverings may be installed independent of the moisture content in the underlying concrete construction and with running water not under pressure in the air gap.

Studs are formed in a regular pattern on the one face of the Membrane. The studs are spaced at approx. 60mm centres. The product is supplied in 2.0m x 20m rolls.

WORKABILITY

The Platon P20 Membrane is tough but pliable and can be bent round corners and projections without risk of breaking even in very low temperatures. The Membrane can be easily cut with a knife or scissors.

STORAGE

Sheets of Platon P20 Membrane should be stored flat and rolls of P20 Membrane should be stored on end.

TECHNICAL DATA

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| Sheet Thickness: | Nominal 1.00mm |
| Stud Height (net): | approx. 20mm |
| Unit Weight: | 0.95 kg/m ² |
| Tensile strength at yield | at least 10 N/mm ² |
| Elongation at yield: | at least 15% |
| Max. Compressive strength | 150 kN/m ² |
| Deformation under long term load: | max. 10% (load of 50 kN/m ²) |
| Working Temperature: | -50° to +80°C |
| Softening Temperature: | +125°C |
| Linear Coefficient of thermal expansion | 0.13mm/m.°C |
| Life Expectancy: | at least 50 years for defined applications. |
| Thermal Resistance: | 0.17m ² .°C/W |
| Water Vapour Resistance: | 3500m ² .s.Gpa/KG |
| Drainage Capacity: | Max. 13 l/sm |
| Air Gap Volume: | 14 litre/m ² |
| Colour: | Black |

CHEMICAL RESISTANCE

The Platon P20 Membrane is resistant to all chemicals to which it can be exposed, in normal building construction.

A small number of aggressive chemicals (e.g. solvents) in large concentrations, can to some extent attack the Platon P20 Membrane during prolonged exposure. If the product is to be applied, for example as cladding to storage tanks for aggressive chemicals, the supplier should be contacted, with a view to assessing necessary action.

Floor application using P20

Begin at one side of the room and unroll the Platon P20 floor membrane against the wall membrane with the studs facing down onto the floor and cut the membrane to the desired length or width of the floor, just like laying a carpet. Repeat this exercise till all the lengths/widths required to cover the floor area have been cut allowing for a two-stud membrane overlap.

The individual sheets of membrane that have now been cut, are joined together with Platon sealing rope. The sealing rope is positioned between the two stud formations along the edge of the membrane to be overlapped and remove the release paper. Lift the next sheet of P20 membrane over the two interlocking studs and press the overlapping membrane down onto the sealing rope.

Foot pressure can be applied by sliding the sole of the foot over the membrane joint, to ensure that the membranes are fully bonded. The next stage of the operation is to link the P20 floor membrane to the wall membrane, which can be achieved, using Platon wall/floor junction or Corner strip. Using Platon wall/floor junction, work out how many linear metres there are around the walls, the platon wall/floor junction is produced in manageable 2LM lengths with a crease formed in the centre. Fold the material in half down the centre crease and then apply Platon sealing tape along the edges of the wall/floor junction material and leave the backing paper on.

Ensure that the floor and wall membrane is clean and free from debris, dust and moisture and then position the Platon wall/floor junction with the crease into the angle. Working from the centre, carefully peel back the backing paper in each direction and use hand pressure along the taped edges to form a seal. To form internal and external angles using Platon wall/floor junction, the wall/floor Junction is cut to the centre line and bent either inwards or outwards depending on the angle. The edges are then sealed with tape to the membrane in the same manner described above.

If the one-sided adhesive corner strip is chosen to link the floor and wall membrane, the corner strip is folded in half along the length of the piece to be used and positioned with the crease into the angle as described for the wall/floor junction. Once correctly aligned, carefully pull off the backing paper and press firmly out with the palm of the hand onto the floor and wall membranes. Internal and external angles can be formed in the same manor as the Platon wall/floor junction but because it is a one-sided self-adhesive material and will stick to itself, no additional sealing tape is required.

NBS Clause: J40 (Flexible sheet tanking, damp proofing) 290

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