

Data Sheet

Waterproofing

Structural Waterproofing from Rawell



non-woven polypropylene geotextile



woven polypropylene geotextile

RAWMAT® HDB Type P2 Structural (2m x 50m)

A factory prehydrated sodium bentonite membrane for the waterproofing of below ground structures in accordance with BS8102 : 1990 where no oversite blinding is used beneath the membrane.

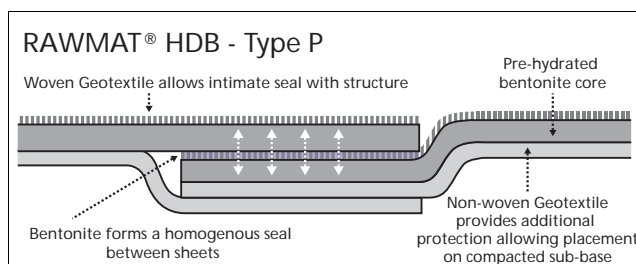
INSTALLATION

All projects must be assessed on an individual basis as installation details may differ from project to project. For project specific recommendations and CAD details contact the Technical Sales Department at Rawell.

The RAWMAT® HDB Type P2 is for use across large floor and roof slabs. Due to the weight of the rolls care should be taken and the use of a certified Rawell lifting device is highly recommended to ensure correct and efficient handling. Due to the thick non-woven geotextile protection to the clay core the RAWMAT® HDB Type P2 can be laid on a solid compacted sub-base free of abrupt irregularities with all lumps removed and voids filled. Installation may continue during light rainfall providing the blinding process continues until all of the RAWMAT® HDB Type P2 is covered with the correct depth of protective layer.



The RAWMAT® HDB Type P2 shall be laid with the non-woven polypropylene in contact with the compacted substrate with the black woven geotextile uppermost. In vertical applications the black woven geotextile faces outermost bonding to the concrete poured against it. Sealed laps will be achieved by overlapping the adjacent sheet by a minimum of 100mm, folding back the top layer of the overlap and peeling the non-woven geotextile off the bentonite core before folding the sheet back to form a sealed overlap.



Under no circumstances shall there be any non-woven geotextile contained within the lap (see detail). When placed under a slab, the RAWMAT® HDB Type P2 shall protrude beyond the building line by at least 150mm this provides contact with the vertical membrane ensuring continuity of the waterproofing system.

The membrane should be fixed using Rawmat Soft Washer fixings fixed 500mm apart and 100mm below the top edge of the sheet. Alternatively, the membrane can be fixed using Rawtite Rapid Bond adhesive at an application rate of one "pea sized" drop onto the face of the membrane every 500mm.

Any necessary penetrations through the RAWMAT® HDB shall be sealed by the application of RAWSEAL® TR35 and RAWPASTE Mastic, which is to be carried out in accordance with the manufacturer's instructions. Plant or equipment should be prevented from traveling on the RAWMAT® HDB Type P2 until the approved protection layer has been installed.



In the event of damage to the RAWMAT® HDB Type P2 the damaged area shall be cleaned and overlain by a patch of the RAWMAT® HDB Type P2 at least 150mm larger in all directions than the damaged area. Remove the non-woven geotextile from the patch before placing the patch black side uppermost and secure using RAWPASTE Mastic or Rawmat Soft Washer fixings.

At the end of each working day any exposed leading edges of the RAWMAT® HDB Type P2 shall be protected by wrapping in polythene and secured to prevent displacement. When placing blinding or backfill, care shall be taken to ensure that the overlaps are not disturbed or displaced. The protection layer shall be placed in the direction of the overlaps and not against the flow of the joints.

For details of Rawell products and services visit www.rawell.com where you can find more information suited to your specific needs, or call +44 (0) 151 632 5771

ADVANTAGES OF RAWMAT® HDB

- ✓ Can be laid directly onto compacted earth – no oversite blinding
- ✓ Can be used against secant piles due to tough non woven geotextile
- ✓ No extended curing or primers required – lays onto wet surfaces
- ✓ Simple to install no need for specialist labour
- ✓ Forms self sealing laps – no additional bentonite or taping joints
- ✓ “Active” system - bentonite self heals minor structural movement
- ✓ Tough geotextile carriers – no need for protection boards
- ✓ Natural clay base – will out live structure to which it’s applied
- ✓ Immediate gas & vapour barrier
- ✓ No tracking of liquid between membrane and structure
- ✓ No further on site hydration required
- ✓ Unique environmentally friendly product - no solvents or VOC’s
- ✓ Highly resistant to charcoal dehydration.

DESPATCH QUANTITIES

1 Roll = 2m x 50m = 100m² - Average Weight = 850 kg
 Approximate Roll Dimensions = 800mm Diameter x 2,010mm Width

28 Rolls (2,800m²) capacity per 40 ft Road Trailer/Container
 28 Rolls (2,800m²) capacity per 40 ft Container

*Weight restrictions vary from country to country due to legislation.
 Please obtain confirmation from Rawell on territorial transport legislation.

HANDLING & STORAGE

RAWMAT® HDB Type P2 is rolled on 225mm diameter cores. Each roll is sealed in airtight polythene film. The rolls are sheathed in hardboard and banded prior to despatch for protection during transport and handling. Each roll has a unique batch identification code. Rolls must be handled with either a ‘carpet boom’ attachment to a forklift or with a lifting beam, comprising a carrier beam, chains and a spreader bar, supplied by Rawell. The RAWMAT® HDB Type P2 shall be stored and handled strictly in accordance with the manufacturers instructions.

The storage area shall be dry and stable. The contractor shall ensure the RAWMAT® HDB Type P2 or its packaging is not damaged. Any RAWMAT® HDB Type P2 damaged during the delivery, storage or handling shall be rejected and shall not be incorporated in the works. Rolls may be stacked three high in their unopened state.

Once opened, the rolls must be stored under cover or protected with a weatherproof sheet. To prevent rain damage and drying out, any part used roll can be re-wrapped and can be re-used if it has been protected in plastic to prevent moisture loss or saturation from rainfall.

All information contained within this document is given in good faith and is correct to the best of Rawell Environmental Ltd.’s knowledge. This information is not legally binding and may be changed at any time without notice.

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