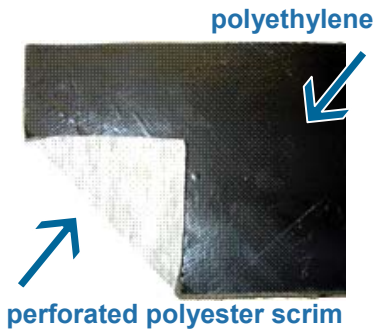


Data Sheet

Waterproofing Structural Waterproofing from Rawell



RAWMAT[®] HDB Slabseal Structural (2m x 30m)

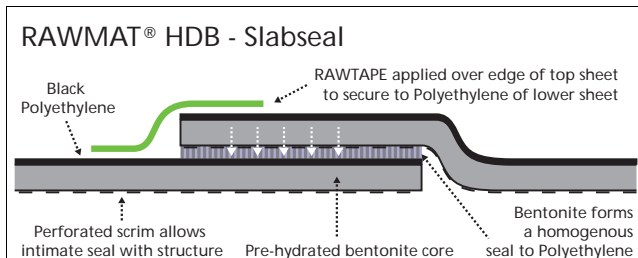
A factory prehydrated sodium bentonite membrane for the waterproofing of below ground structures in accordance with BS8102 : 1990.

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 Department at Rawell.

RAWMAT[®] HDB Slabseal is generally used across large floor or roof slab structures, it can be used vertically but care shall be taken and due to the weight of the rolls, use of a certified Rawell lifting device is highly recommended to ensure correct and efficient handling.

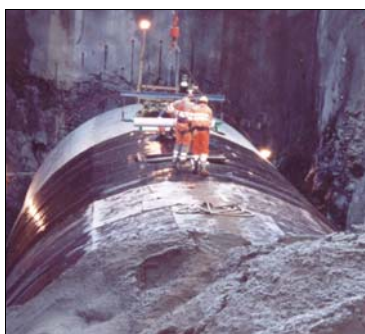
When used to waterproof a roof or tunnel structure RAWMAT[®] HDB Slabseal shall be laid with the perforated scrim side to the structure and the polythene film side uppermost, this will give an intimate seal between the natural sodium bentonite central core and the concrete and prevent any tracking of liquid.



The surface onto which the RAWMAT[®] HDB Slabseal is to be laid shall be smooth concrete free of abrupt irregularities with all lumps removed and voids filled with mortar or RAWPASTE Mastic.

Air hose the surface to clean laitance and dirt to allow a bond to form between the bentonite and the structure. Due to the protection from rainfall afforded by the polyethylene sheet to the clay core of the RAWMAT[®] HDB Slabseal installation may continue during rainfall, it is advisable to ensure all laps are sealed with the RAWTAPE which is supplied with the RAWMAT[®] HDB Slabseal as part of the membrane installation.

Sealed laps shall be achieved by simply overlapping the sheets so that the polythene is in direct contact with the scrim side of the upper sheet. This overlap to be a minimum of 100mm. Once the joints have been prepared in this way, the joint shall be sealed with the application of Rawtape 100 to seal all joints. This sealing will prevent premature wetting of the natural sodium bentonite clay core and allow longer exposure of the membrane to the weather conditions. For applications where an immediate seal against hydrocarbons, contaminants or gases is required, prior to lapping a liberal application of RAWPASTE Mastic should be made to the polyethylene within the joint. Any necessary penetrations through the RAWMAT[®] HDB Slabseal 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 must be prevented from traveling on the RAWMAT HDB Type Slabseal until the approved protection layer has been installed.



In the event of damage occurring to the RAWMAT[®] HDB Slabseal the damaged area shall be overlain by a patch of the RAWMAT[®] HDB Slabseal at least 150mm larger in all directions than the damaged area. The area to be overlain shall be cleared of all debris and swept clean. RAWPASTE Mastic shall be applied across the polythene, the patch is then placed in position with the black polythene side uppermost over the torn area the edges of the patch are to be sealed with Rawtape 100 and secured with Rawmat Soft Washer fixings.

The RAWMAT[®] HDB Slabseal can also be laid in underslab applications but shall be used with the polyethylene film side in contact with the prepared substrate and the perforated scrim side uppermost. This will require the protective concrete blinding to be poured immediately over the membrane.

At the end of each working day any exposed edges of RAWMAT[®] HDB Slabseal shall be protected by wrapping in polythene and weighed down to prevent displacement. When placing blinding or backfill care shall be taken to ensure that the overlaps are not disturbed or displaced. The protection should 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

- ✓ Use when positive drainage is beneficial to waterproofing system
- ✓ Can be exposed much longer than other bentonite membranes
- ✓ No need for protective blinding concrete cover
- ✓ Forms self sealing laps – taping joints allows longer exposure
- ✓ 2m x 30m rolls reduce laps and speed up installation
- ✓ 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
- ✓ 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

DESPATCH QUANTITIES

1 Roll = 2m X 30m = 60m² - Average Weight = 510 kg
 Approximate Roll Dimensions = 500mm Diameter x 2,010mm Width

45 Rolls (2,700m²) capacity per 40 ft Road Trailer/Container
 45 Rolls (2,700m²) 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 Slabseal is rolled on 225mm cores. Each roll is individually 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 Slabseal shall be stored and handled strictly in accordance with the manufacturers instructions, given below. The storage area shall be dry, stable and free of material that will damage the RAWMAT® HDB Slabseal during the storage period. The contractor shall ensure that the plant and equipment used for handling does not damage the RAWMAT® HDB Slabseal or its packaging. Any RAWMAT® HDB Slabseal damaged during the delivery, storage or handling shall be rejected. Rolls must be stored under cover or covered with a protective 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.

Rawell Environmental Ltd, Carr Lane, Hoylake, Wirral, Merseyside CH47 4AZ.
 Tel. +44 (0) 151 632 5771 Fax. +44 (0) 151 632 0252
 www.rawell.com E-mail. postmaster@rawell.com

