

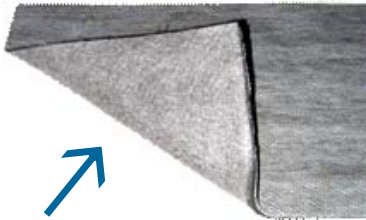
Data Sheet

Waterproofing

Structural Waterproofing from Rawell



perforated polyester scrim



non-woven polypropylene geotextile

RAWMAT® HDB Type SF2 Structural (2m x 50m)

A factory prehydrated sodium bentonite membrane for the waterproofing of below ground structures in accordance with BS8102 : 1990 which is used for the protection of underground structures in areas of fluctuating ground water tables.

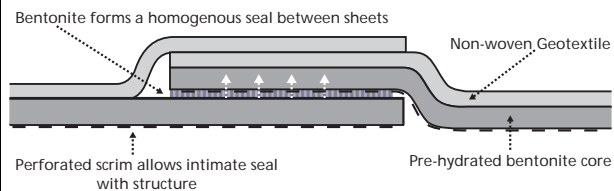
INSTALLATION

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 surface onto which the RAWMAT® HDB Type SF2 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. Installation may continue during light rainfall providing the installation process continues until all RAWMAT® HDB Type SF2 is covered with the correct depth of protective layer.



RAWMAT® HDB - Type SF



The RAWMAT® HDB Type SF2 shall be laid with the non-woven perforated scrim in contact with the concrete to be waterproofed and non-woven geotextile uppermost.

Sealed laps will be achieved simply by overlapping the adjacent sheet, peeling the non-woven geotextiles from the clay core of the underside of the overlap and folding this over the lapped joint, overlaps are to be a minimum of 100mm **Under no circumstances shall the non-woven geotextile be contained within the lap** (see detail).

For applications where an immediate seal against hydrocarbons, contaminants or gases is required, apply a liberal application of RAWPASTE Mastic to the clay core within the joint prior to lapping. RAWMAT® HDB Type SF2 does not require further hydration to form an effective barrier against these contaminants.

The vertical membrane shall be fixed using Rawmat Soft Washer fixings applied 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 400mm. Any necessary penetrations through the RAWMAT® HDB Type SF2 membrane shall be sealed by the application of RAWSEAL TR35 fillets and RAWPASTE Mastic, which is to be carried out in accordance with the manufacturer's instructions. Please contact Rawell for specific detailing information. Plant or equipment should be prevented from traveling on the RAWMAT HDB Type P1 until the approved protection layer has been installed.

Due to the weight of the rolls use of a certified Rawell lifting device is highly recommended to ensure correct and efficient handling. At no time during or subsequent to the installation of the RAWMAT® HDB Type SF2 will plant or equipment be permitted to travel on the RAWMAT® HDB Type SF2, the machinery placing the protective layer must not travel on the cover unless it is 500mm thick or greater.



In the event of damage occurring to the RAWMAT® HDB Type SF2 the damaged area shall be cleaned, the clay core exposed by cutting back the non-woven geotextile, and overlain by a patch of the RAWMAT® HDB Type SF2 (non-woven side uppermost). The patch piece must be at least 150mm larger in all directions than the damaged area. This shall be secured using RAWPASTE Mastic and Rawmat Soft Washer fixings. Care should be taken to ensure this repaired area is not displaced by the placement of the backfill.

At the end of each working any exposed leading edges of the RAWMAT® HDB Type SF2 shall be protected by wrapping in polythene and secured to prevent displacement. When placing 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

- ✓ Used in conditions of constant fluctuation in water table
- ✓ Tough geotextile carriers – no need for protection boards
- ✓ Simple to install no need for specialist labour
- ✓ No tracking of liquid between membrane and structure
- ✓ Forms self sealing laps – no additional bentonite or taping joints
- ✓ “Active” system - bentonite self heals minor structural movement
- ✓ No extended curing or primers required – lay onto wet surfaces
- ✓ Simply nailed to the structure – self seals punctures
- ✓ Immediate gas & vapour barrier
- ✓ Unique environmentally friendly product - no solvents or VOC's
- ✓ Highly resistant to chemical degradation
- ✓ No further on site hydration required
- ✓ Natural clay base – will out live structure to which it's applied

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 SF2 is rolled on 225mm cores. Each roll is individually sealed in airtight polythene. 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 supplied by Rawell, comprising a carrier beam, chains and a spreader bar. The RAWMAT® HDB Type SF2 shall be stored and handled strictly in accordance with the manufacturers instructions, given below. The storage area shall be dry and stable. The contractor shall ensure that the RAWMAT® HDB Type SF2 or its packaging are not damaged. Any RAWMAT® HDB Type SF2 damaged during the delivery, storage or handling shall not be incorporated in the works.

Rolls may be stacked two high in their unopened state. Rolls must be stored under cover or protected with a weatherproof sheet. 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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