

Dual Seal Resealable Waterproofing Membrane

Inspection

A. General:

Examine surfaces specified to receive waterproofing to ensure that they are in a condition acceptable to manufacturers recommendations. Ensure that voids greater than 10mm are filled with grout, and sharp protrusions over 10mm are removed.

B. Do not install membranes in standing water.

C. Ensure that where tapes are used the surfaces to which they are to be adhered are free from dirt, dust, snow, ice, release oils and other contaminants.

D. Horizontal surfaces should be swept clean, particularly the surface of the wall footing.

Preparation

A. Layout: Anticipate conditions prior to start of work. Note termination and penetration positions to determine methods for ensuring a watertight envelope.

B. Fillets: Form fillets with 50mm of Dual Seal Mastic, or Dual Seal Granules at intersections of walls and footings. Form fillets with mastic at the inside of vertical corners and around penetrations.

Installation

A. Install the Dual Seal Membrane where shown on the drawings and in accordance with the manufacturer's recommendations as approved by the Architect and/or Engineer.

NB: In horizontal applications Dual Seal is normally installed with the bentonite face down, however, Dual Seal LG may be installed under a floor with the bentonite side up depending on the weather and site conditions.

Bentonite Side down

A. Dual Seal membrane is laid directly onto blinding prior to the laying of the slab, however if the substrate consists of soils, sand, gravel or crushed stone ensure that the aggregate does not exceed 12mm, a 1000g polythene sheet should be used so that the bentonite expands against a smooth substrate.

B. Unroll sheet fully and place the membrane over prepared surfaces in such a manner as to ensure minimum handling.

C. Install membrane with bentonite side down lapping the edges by 50mm. Tape all overlaps using Bitusheet tape and extend the membrane by 300mm at perimeter to allow sufficient overlap with the vertical membrane and mechanically fix at the toe.

D. Fit closely and seal around pipe penetrations as recommended.

E. Inspect and repair any damaged material, before placing the concrete, by placing a square of membrane over the damaged area and fully tape in position.

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Bentonite Side up

- A. Ensure that substrate is level and compact. Substrate may consist of soils, sand, gravel or crushed stone provided they are 12mm or smaller in diameter. Ensure that temporary cover is provided to the bentonite to prevent premature expansion.
- B. Unroll the Dual Seal LG fully and lay the membrane over the prepared surface,
- C. Install Dual Seal with edges overlapped by a minimum of 50mm. Joints may be stapled every 200mm.
- D. Extend the Dual Seal Membrane 300mm up or beyond the perimeter slab. This will be used later to tie in vertical membrane.
- E. Fit closely around pipe penetrations as recommended.
- F. Inspect and repair any damaged material before placing the concrete.

Vertical Backfilled Walls

- A. Inspection - Confirm that all areas to receive the membrane are suitably prepared.
- B. Form fillets at vertical wall / horizontal intersections with Dual Seal mastic and seal at vertical inside corners, under ledges and at penetrations.
- C. Place the membrane over prepared surfaces where shown on the drawings. Dual Seal is generally installed vertically to the outside wall, however it can be installed horizontally along the wall. The HDPE (black) side which should always face the installer when it is being fixed, however an exception to this would be if it was being used in blindside concrete when it is fixed to permanent shuttering in which case Dual Seal LG must be used.
- D. After unrolling, the Dual Seal should be nailed across the top, mechanically fixing the membrane every 300mm and allowing the sheet to hang down onto the footing. Install 2nd sheet by overlapping onto the first sheet by 50mm. Pull taught and nail through both sheets at the overlap area, followed by Bitusheet tape centred over the overlap joint, to prevent stones and debris entering the joint.
- E. Properly treat all penetrations by cutting a separate section of the membrane to fit snugly around penetrations and bed on a 50mm triangular Dual Seal mastic fillet.
- F. Terminate the membrane at top of walls by mechanically fixing at 300mm centres and make certain that the membrane extends to form continuity with the above ground waterproofing details.