



BITUBOND 100 (Cold applied, self-bonding Tanking Membrane)

Benefits:

Factory controlled 1.5mm thickness
Easy application
High impact resistant carrier
Traditional construction
Economical

Description

BITUBOND 100 TANKING MEMBRANE is a self bonding polymer modified bitumen, covered on one side by a durable, high density 2-ply, cross laminated polythene film. The underside is protected by a release sheet which is removed prior to the bonding of the material on a suitably primed substrate. Once the release sheet has been removed the membrane can be easily applied by roller.

Uses

BITUBOND 100 is designed for use as a self bonding vertical or horizontal damp proof membrane in tanking ground structures, parking and plaza decks, subways and retaining walls.

Preparation

All surfaces should be smooth, clean and dry and free from projections, cavities and mortar deposits. On sloping or vertical surfaces, or on dusty or porous surfaces, we advise the surface be treated with a suitable bitumen primer. On very porous surfaces, use two coats of primer.

Application

Remove the protective release sheet. Apply the membrane, side down, to the prepared surface. Press down firmly, working from the centre to the edges to expel air pockets. Membrane should be overlapped to ensure a good seal; overlap should be a minimum of 75mm at the edges and 100mm at roll ends and should be firmly rolled with a hand held pressure roller. The free edge should be well rolled onto a primed strip of substrate to ensure a good seal.

BITUBOND 100 must be covered within 2-3 days of application. No part of the membrane should be permanently exposed. Support vertical work immediately after application. Prior to final covering, check the membrane for any tears, holes, wrinkled seams, etc. Use patches of BITUBOND 100 to repair any damaged areas.

If being used as a horizontal damp proofing membrane, the membrane must be taken up the walls and linked to the damp-proof course. Double cover all internal and external corners, and construction joints in slabs by applying a strip of membrane (min. 300mm wide) centred along the corner of the joint before applying the main membrane. Internal angles require a 30-50mm mortar fillet placed and cured before applying the re-inforcing strips. Prime areas around pipes and drains to a width of 300mm before covering with a double layer of BITUBOND 100, ensuring any exposed edges are well bonded before finally applying a floor screed of approx 50mm thickness over the membrane.

Tanked surfaces should have the appropriate waterstops cast into the reinforced concrete. Tanking should preferably be externally applied (the membrane on the wet side of the structure).

Limitations

BITUBOND 100 TANKING MEMBRANE should not be applied when surface temperature of the substrate falls below 5°C. When a brick skin is applied to the face of the vertical BITUBOND 100, care must be taken not to damage the membrane and a gap of 12mm should be left which is filled with sand/cement mortar as work proceeds. Only sufficient BITUBOND 100 should be laid which can be protected as work proceeds. When areas of BITUBOND 100 are left exposed for any length of time ensure that all edges are held in place by battens.



Quality

BITUBOND 100 TANKING MEMBRANE employs a selvedge feature. This consists of a 50mm wide strip of bitumen polymer adhesive on one side of the membrane. This is protected by a release coated plastic which is removed immediately prior to application of the overlapping sheet.

The selvedge provides a clear indicator of the minimum overlap that must be achieved to ensure effective sealing of the joints and ensures a high performance bond/seal.

Specification

The horizontal and/or vertical damp-proof membrane to BITUBOND 100 Self Adhesive Damp Proof Membrane from Bond It. Used in accordance with the manufacturers instructions and the requirements of the British Standard Code Of Practice CP102 (Protection of buildings against water from the ground).

Storage Conditions

Store under cover away from sources of heat and ignition. Keep containers sealed when not in use.

Storage Life

12 months under good storage conditions in original unopened containers.

TECHNICAL INFORMATION

Backing Thickness:	0.10mm
Backing Type:	HDPE
Adhesive Thickness:	1.40mm
Total Thickness:	1.50mm
Weight:	1.7kg/m ²
Carton Size:	260x260x1080mm
Carton Weight:	18.kg

MECHANICAL PROPERTIES

Membrane Strength:	56N/cm
Elongation:	200%
Puncture Resistance:	300N
Adhesion (1800 Peel)	40N/cm

FUNCTIONAL DATA

Water Vapour:	0.23 g/m ² 24h
Permeability Vapour Resistance:	892MN/s/g
Water Penetration MOAT 5.1.4:	Nil
% Joint Dimensional MOAT:	-
Stability Longitudinal (70°C)	-0.1
Stability Lateral (70°C)	-0.2

The data presented in this leaflet is in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the products for a particular purpose.