

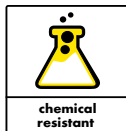
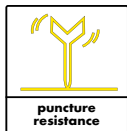
# Bituboard ULTRA

## Fibre impregnated asphaltic protection board

Multi layer, asphaltic protection board.

### CHARACTERISTICS

- ▶ Non bio-degradable
- ▶ Weather, warp and rot proof
- ▶ Tough and durable
- ▶ Excellent resistance to chemicals
- ▶ Improved puncture resistance
- ▶ Compatible with most waterproofing systems
- ▶ Does not Contain Asbestos, Chromated copper arsenate and Lead



### DESCRIPTION

Bituboard ULTRA is a multi layer, asphaltic protection board. It is manufactured by thermally bonding polymer modified bitumen with selected additives which is then sandwiched between a layer of saturated fibre-glass on one side and anti-stick polyethylene liner on the other.

### FIELDS OF APPLICATION

Bituboard ULTRA has been designed for use as a permanent protection to most waterproofing and damp proofing systems, especially the bitumen based sheet membrane and coating systems indicated in BS 8102. Bituboard ULTRA will absorb the impact of aggregate shock, normal site foot traffic and protect the waterproofing membrane from penetration by the edges of reinforced steel and aggregate during the backfill process and late settlement.

### APPLICATION INSTRUCTIONS

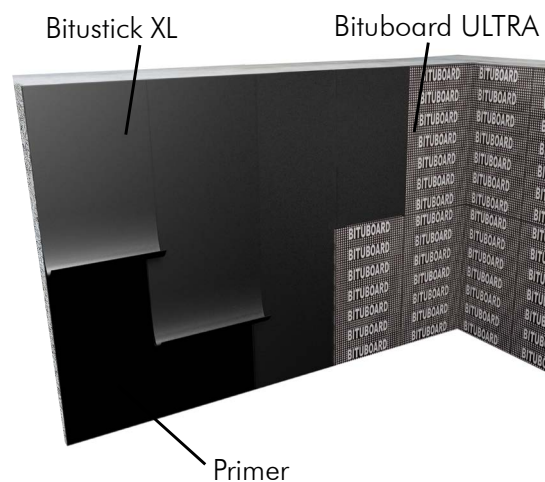
The application of Bituboard ULTRA should be carried out when the ambient temperature is between 5°C and 55°C and should avoided in case of extreme weather conditions such as sand storms, rain, etc. Bituboard ULTRA can be fixed on top of the waterproofing membrane by using a double sided adhesive tape (Bitutape TS)\*, Bitubond N or even by torching (for fixing over torch applied membranes). Once the protection board is fixed in place, supports/ props have to be used to keep the boards in place till the adhesive is strong enough to hold the board. Subsequent boards shall be laid continuously by butt fitting the edges. For irregular profiles, the board shall be cut to fit all



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intersections and protrusions. The butt joints can be sealed with 50mm wide HDPE bitumen adhesive strip to prevent any backfill material entering and causing damage to the underlying waterproofing membrane.



For illustration Purpose only

## HANDLING

Bituboard ULTRA is shrink-wrapped and loaded on pallets for easy handling. The pallets should be loaded or offloaded with the help of a crane or forklift to prevent damage to the protection boards. If the boards are unloaded individually, it is to be ensured that they are stacked back on a pallet or on a flat surface.

## STORAGE & SHELF LIFE

Bituboard ULTRA should be covered and stored in a dry and shaded area away from sunlight, UV and sources of heat. Do not stack one pallet on top of the other. It is recommended not to open the shrink wrap till the time of application. The boards, loose or on pallets, must be stored on flat surface. The shelf life is 12 months when stored as per the recommendations. Excessive exposure to sunlight and UV will result in the deterioration of the quality of the product and reduce its shelf life.

## HEALTH & SAFETY

Bituboard ULTRA might leave bitumen stains on the skin and hands during application. The stains can be removed by using a suitable cleaner. Care should be taken when using tools to cut the boards.

## SUPPLY

Bituboard ULTRA	3.2 mm 2m x 1m, wt 7.25kg#
	4.0 mm 2m x 1m, wt 8.75kg
	6.0 mm 2m x 1m, wt 13.5kg
Bitutape TS	50mm x 10m, wt 0.60kg#
Bitubond N	5L Tin

# Approximate weight

## TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Thickness, [mm]	3.2/4/6	DIN EN 1849-1
Density, [g/cc]	1.1 - 1.2	
Mass per unit area [kg/m <sup>2</sup> ]		
3.2 [mm]	3.4- 3.6	DIN EN 1849-1
4.0 [mm]	4.2- 4.4	DIN EN 1849-1
6.0 [mm]	6.55 - 6.75	DIN EN 1849-1
Softening point [R&B], [°C]	≥ 140	ASTM D 36/ DIN EN 1427
Asphalt content, [%]	> 75	ASTM D 545
Chisel puncture	Pass	In house test method
Heat resistance @80°C	No Flow	DIN EN 52 123
Hydrostatic pressure @5 bar [50m]	No leakage	BS EN 12390 (Part 8)
Good resistance to chemicals, sulphate & chlorides [pH]	2.2 - 11.5	ASTM D 543
VOC [g/l]	<50	ASTMD3960/ D2369

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

