



PROTECTO-BOARD

BITUMINOUS PROTECTO BOARD

TECHNICAL DATASHEET

1: DESCRIPTION

Protecto-board B is a tough semi-flexible waterproofing, protection and recovery board made from APP / SBS bitumen. It is pre-moulded with a polyester reinforcement carrier, giving a very high tensile strength and superior puncture resistance.

It is suitable for a variety of applications in below ground or above ground waterproofing applications as well as roofing, parking, bridge decks, wet areas, planters, pools, fountains and civil works.

2: COMPOSITION

High performance semi rigid board manufactured from a tough APP (Atactic Poly Propylene) and SBS (Styrene butadiene Styrene) bituminous mix with fillers and modifiers. > 75% bitumen content.

It is reinforced with two layers of laminating polyester carrier fleece held under pressure providing the board with a superior puncture resistance and low deflection coefficient.

The boards are coated with Polyethylene film to prevent them sticking together.

3: SPECIAL FEATURES

- Damp proof with very low water absorption. Unaffected by permanent Immersion in water.
- High puncture and impact resistance. Passes the chisel test.
- Compatible Bituminous, EPDM, TPO, PVC, Polyurethane, Butyl rubber, Epoxy, Acrylic, Chlorinated Rubber and coal tar membranes.
- Very strong impact resistance from backfilling and abrasion from construction traffic, concreting and other topping work.
- Maintains shape stability at high temperatures and retains flexibility at low temperatures.
- It is tough, rot proof and non-biodegradable with over 75% bitumen content.
- Resistant to salts, chlorides and other chemicals normally found in soils.
- Ideal as a recovery board in re-roofing projects. Fast, light weight alternative to screed and eliminating the need to remove the old roofing regardless of its type.
- Semi-flexible membrane that can be bent into shapes and contours without cracking while rigid enough to hold as a board on vertical surfaces.



- Softening point 115-130°C.
- Top surface covered in thin 15µ Polyethylene film. Bottom surface covered with a thin Polyethylene film which can be removed with a torch.
- A variety of thickness are available. Standard products are 3mm and 6mm.

3.0mm				
	PROCEDURE	UNITS	TOLERANCE	VALUE
ASTM				
Length		m	<-1%	2
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	3.0
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.55
Puncture resistance	ASTM D514	N; mm	mlv	1200; 32
CE				
Visible defects	EN 1850-1	N°/m²	0	0
Length	EN 1848-1	m	<-1%	2
Width	EN 1848-1	m	<-1%	1
Mass per unit area	EN 1849-1	kg/m²	+/- 10%	3.85
Thickness	EN 1849-1	mm	-0.2mm	3.0
Resistance to static loading (method A)	EN 12730	kg	min	25
Resistance to impact	EN 12691	mm	mlv	>700
Reaction to fire	EN 13501-1		Euroclass	F

6.0mm				
	PROCEDURE	UNITS	TOLERANCE	VALUE
ASTM				
Length		m	<-1%	2
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	6.0
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.75
Puncture resistance	ASTM D514	N; mm	mlv	1200; 25
CE				
Visible defects	EN 1850-1	N°/m²	0	0
Length	EN 1848-1	m	<-1%	2
Width	EN 1848-1	m	<-1%	1
Mass per unit area	EN 1849-1	kg/m²	+/- 10%	7.65
Thickness	EN 1849-1	mm	-0.2mm	6.0
Resistance to static loading (method A)	EN 12730	kg	min	25
Resistance to impact	EN 12691	mm	mlv	>700
Reaction to fire	EN 13501-1		Euroclass	F

Protecto-board batches are tested at random intervals by independent laboratories to international standards and witnessed by Inspectorate International (Saudi Arabia) Ltd. and the results of these tests are available on request. In addition, each batch manufactured is subject to strict quality control procedures to ensure it meets appropriate and applicable standards and/or norms.



4: HAZARDS IDENTIFICATION

This product does not meet the criteria for requiring classification and identification as per regulation (EC) No 1272/2008 (CLP) and Directive 1999/45/EC (DPD) No 1272/2008 (CLP).

5: FIRST AID MEASURES

Eyes: Immediately flush eyes with water for at least 15 minutes. If irritation develops get medical attention.

Skin: Product can be absorbed through the skin upon prolonged contact could cause nausea and headache.

Inhalation: Due to the physical nature of this product, inhalation is unlikely.

Ingestion: Due to the physical nature of this product, ingestion is unlikely.

6: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, Carbon Dioxide or Dry Foam (Macrofoam).

Special Exposure Hazards: Not Known.

Special Protective Equipment: Wear NIOSH (National Institute for Occupational Safety and Health) approved positive pressure, self-contained breathing apparatus (SCBA) and full Personal Protective Clothing.

7: ACCIDENTAL RELEASE MEASURES

Not Applicable

8: HANDLING AND STORAGE

Handling: Use Good House Keeping Practices for example wear safety glasses with side shields and gloves.

Storage: In a dry ventilated area room far from sources of heat and direct sunlight.

9: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Not Known.

Engineering Control Measures: Use product in a well ventilated area.

Personal Protective Equipment: Safety glasses with side shields and gloves when handling.



10: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid. Colour:
	Black sheet.
Odour:	Not Applicable.
Water Solubility:	Insoluble.
PH:	Not Applicable.
Boiling Point/Range (°C)	~ 177 °C.
Flash Point (closed, °C)	Minimum 250 °C based on bitumen.
Auto flammability (°C)	> 300 °C.
Explosive Properties (%):	This product should be handled using methods and techniques that minimise or eliminate dust or fume generation.
Oxidising Properties:	Not Applicable.
Vapour Pressure (kPa at 20°C):	No data.
Relative Density (at 20°C):	No data.

11: STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None Known
Materials to Avoid:	None Known
Hazardous Decomposition Products:	None Known

12: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components:

Health Effects

On Eyes: On account of the fact of the physical nature (solid at room temperature) direct contact with eyes is unlikely.

On Skin: Product can be absorbed through the skin upon prolonged contact could cause nausea and headache.

By Inhalation: In principle owing to the physical nature of this product, inhalation is not likely.

By Ingestion: Due to the physical state of this product, namely solid at room temperature ingestion is unlikely.

Chronic: No data available on this product.

13: ECOLOGICAL INFORMATION

No data available on this product



14: DISPOSAL CONSIDERATIONS

Product is not regulated as a hazardous waste by the US EPA (Environmental Protection Agency) under Resource Conservation and Recovery Act (RCRA) Regulations. Disposal must be in accordance with national legislation.

15: TRANSPORT INFORMATION

US D.O.T (Department of Transport)

1. Proper Shipping Name: Not Applicable
2. Technical Name: Not Applicable
3. Hazard Class: Non-Regulated
4. Packing Group: Not Applicable
5. Emergency Response Guide: Not Applicable.

16: REGULATORY INFORMATION

EC Directives No:
305/2011 of the EP (European Parliament) and of the Council.

Statutory Instruments:
None Known.

EU Regulations:
Directive 96/82/EC on the control of major accident hazards involving dangerous substances

Codes of Practice:
GHS Code: Membrane Rolls: 68 07 10 00 00 - Protection Board Sheets: 68 07 90 20 00
BS 8217:2005 Code of Practice for Reinforcement bitumen membranes for roofing.
BS 8215:1991 Code of Practice for Design and installation of damp-proof courses in masonry construction.

17: SUPPLEMENTARY INFORMATION

The data contained in this Safety Data Sheet has been supplied as required by the UK Chemical (Hazard Identification and Packing) Regulations 1993, as amended, for the purpose of protecting health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.



Disclaimer:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Wallbarn Limited.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the user's own assessment of workplace risk, as required by other health and safety legislation.

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith.

However, no warranty or representation of law or fact with respect to such information is intended or given.



Revision No. 05 Issue date: 19 December 2022

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