

# Polyboard PE

## Polyethylene joint filler board

Bitumen free-ideal for water retaining structure with good thermal insulation properties.

### CHARACTERISTICS

- ▶ Non-absorbent and non-tainting. Hence makes it suitable for use in water retaining structures.
- ▶ Highly resilient - the heat welded laminated structure combines greater rigidity and load support, therefore low load transfer.
- ▶ Bitumen-free and rot-proof. Ideal for water retaining structures.
- ▶ Good thermal insulation properties.
- ▶ Easy to install.
- ▶ Natural bond breaker
- ▶ Does not Contain Asbestos, Chromated copper arsenate and Lead



TDS\_Polyboard PE\_GCC\_0924

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### DESCRIPTION

Polyboard PE is a non-extruding, non-absorbent, UV resistant, semi-rigid, highly resilient, bitumen free, closed cell polyethylene joint filler for expansion and movement joints in concrete, brickwork and block work.

### FIELDS OF APPLICATION

- external wall cladding: filling structural expansion & structural separation joints in block & insitu concrete construction.
- trafficable surfaces: filling expansion joints in motorways, runways, taxiways, aprons, pedestrian areas, bridges, kerbs.
- internal surfaces: filling expansion joints across concrete floors, including screed floors.
- roofs & floor finishes: ideal for filling expansion joints in concrete floors.
- building superstructures: filling expansion joints in basements, retaining walls, site slabs, subways & other water retaining structures.
- reinforced concrete structures: expansion joint fillers in piers and lateral supports like abutments.
- expansion strips: against existing or between adjacent constructions and insets in concrete paving like drains, manholes, etc.

- internal finishes: various other flat works and concrete floors according to the state of the art and local regulations.
- used for weight distributing layer in combination with a leveling compound.

### SPECIFICATION COMPLIANCE

Closed cell polyethylene board produced complies with the pertinent type requirement of ASTM D 1752 (compression, extrusion and recovery only). Production standard as per DIN EN 13986 / DIN EN 622-4

### INSTALLATION PROCEDURE

Joint sealing slots: When forming expansion joints with Polyboard PE in in-situ concrete, joint sealing slots can be readily formed in the following manner:

- before installing, simply cut off the top strip as per the required joint depth, throughout the length. this top strip can be removed later for sealant application. pin the top strip back to Polyboard PE using two-inch nails at regular intervals. then install the joint filler assembly - flush with the finished surface.
- prior to sealing, the top strip can then be pulled easily from the joint to provide an uncontaminated sealing slot ready for preparation and sealing. therefore, sealant wastage is reduced.

- as elastomeric sealants will not bond to Polyboard PE, the additional need for bond breaker strips is eliminated.

### STORAGE

Store the boards in a cool, dry and shaded area. the boards should be stacked on a pallet which should be placed on a flat area. As the boards are of thermoplastic material, they are easily combustible. therefore, keep it away from sources of heat and protect from flame. Keep away from sharp edges and protect the edges from getting damaged. during installation carry single boards vertically.

### HEALTH & SAFETY

Being a thermoplastic material, Polyboard PE will melt and is combustible. Otherwise there is no health hazards associated with Polyboard PE under normal use.

### SUPPLY

Polyboard PE	[1m x 2m]	10,15,20, 25, 30,50mm
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### TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Form	Semi-rigid closed cell heat laminated polyethylene sheet	
Color	Black / white	
Density, [kg/m <sup>3</sup> ]	40/60 [upon request]	ASTM D 1752
Compressive strength @50% compression, [N/mm <sup>2</sup> ]	0.15	ASTM D 1752
Recovery after 50% compression, [%]	>90	ASTM D 1752
Extrusion @50% compression with three edges restrained, [mm]	<2	ASTM D 1752
Water absorption	Negligible	ASTM D 545
Resistance to weathering	No desintegration	ASTM G 154
Resistance to chemical and bacteriological attack	Excellent	

*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.

