

## EXPOL GEOFOAM FAMILY – TECHNICAL DATA SHEET

## 1.0 - Product Overview

**EXPOL GeoFoam** (EPS) is a lightweight expanded polystyrene fill that eliminates lateral pressure and vertical movement. It is an ideal solution for sites with challenging ground conditions.

A multi-functional foam product, **EXPOL GeoFoam** is suitable for a wide range of applications, including construction on soft ground, slope stabilization and civil infrastructure work such as bridge abutments, airfield pavements and railway track systems.

**EXPOL GeoFoam** is available in grades S, M, H, VH and Recycled.



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## 2.0 - Installation

2.1 There are no special requirements for PPE when handling or installing EPS. It is an inert, non-toxic material.

2.2 When transporting, storing or installing, ensure the EPS is not exposed to:

- Petroleum based solvents, or
- Fire, or
- Sustained direct sunlight.

2.3 PVC sheathed electrical cables should not be allowed direct contact with EPS.

2.4 EPS is compatible with all common construction products.

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## 3.0 - Maintenance

3.1 No maintenance required

For further technical information please contact us.

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### 4.0 - Warranty

We believe we manufacture and supply the highest quality UnderFloor, EPS and XPS Foam Insulation products and that is why we stand behind them with some of the best warranties in the industry.

4.1 We provide a 20-year warranty on our EPS Foam Insulation Products – for full warranty details visit [www.expol.co.nz/expol-eps-warranty/](http://www.expol.co.nz/expol-eps-warranty/)

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### 5.0 - Compliance with the New Zealand Building Code

EPS, when installed and maintained in accordance with the requirements outlined in this technical data sheet, will meet or contribute to meeting the following provisions of the New Zealand Building Code:

- 5.1 Clause B2 Durability, performance B2.3.1 (a), B2.3.1(b)
- 5.2 Clause E3 Internal moisture performance E3.3.1
- 5.3 Clause F2 Hazardous building materials performance F2.3.1(a)

EXPOL GeoFoam (EPS) is not subject to a warning or ban under the Building Act 2004.

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### 6.0 - Quality Assurance

- 6.1 BRANZ, H1 Energy efficiency performance H1.3.1(a), H1.3.2(e)

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### 7.0 - Technical Data

Properties	Test / Method / Standard	GEOFOAM S GRADE	GEOFOAM M GRADE	GEOFOAM H GRADE	GEOFOAM VH GRADE	GEOFOAM RECYLED GRADE			
Material	Expanded Polystyrene								
Density		16 kg / m3	20 kg / m3	24 kg / m3	28 kg / m3	14 kg / m3			
Block Size	2450 mm x 1220 mm x 630 mm   4900 mm x 1220 mm x 630 mm								
Rate of water vapour transmission (max) measured parallel to rise at 23 deg C	AS 2498.5	520 mg/m2s	520 mg/m2s	460 mg/m2s	400 mg/m2s	750 mg/m2s			
Compressive Resistance KPA at 1%	AS 2498.3	34 KPA	49 KPA	64 KPA	88 KPA	17 KPA			
Compressive Resistance KPA at 2%		59 KPA	96 KPA	108 KPA	142 KPA	34 KPA			
Compressive Resistance KPA at 5%		74 KPA	111 KPA	133 KPA	172 KPA	48 KPA			
Compressive Resistance KPA at 10%		84 KPA	126 KPA	146 KPA	189 KPA	57 KPA			
Youngs Modulus	-	3.8 MPA	4.1 MPA	6.2 MPA	8 MPA	2.2 MPA			
Cross breaking strength KPA	AS 2498.4	165 KPA	200 KPA	260 KPA	320 KPA	90 KPA			
Dimensional stability of length, width & thickness (max) at 70 deg C for 7 days	AS2498.6	1%							
Determination of flame propagation surface ignition -Medium flame duration (max)	AS2122.1-1993	2 sec							
-Eighth vale		3 sec							
Fire behavior									
Spread of flame index (0 – 10)	AS/NZS 1530.3:1999	0							
Smoke developed index (0 – 10)		5							
Recycled Content		5%	0%			100%			
Recyclability	EPS is 100% recyclable								
Environmental Statement	EPS is inert and non-toxic. There are no chemicals or gases harmful to the environment emitted from EPS either during manufacture or within use.								
Ozone Depleting Potential	EPS does not contain ozone-depleting CFC or HCFC gases, nor use them in its manufacture. As a result, EPS has zero ozone depletion potential.								
Vermin Resistance	EPS does not offer any nutritive value.								

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