

**DECLARATION OF PERFORMANCE
(Regulation (EU) 305/2011)
No. POLIPLUSBLU01/2024**



1. Unique identification code of the product-type: **POLIPLUS BLU**
2. Type batch or serial number or any other element allowing identification of the construction product as required under Article 11 (4): **BEPS-PS5N-D0-LD190-FMD230-DMD210**
3. Intended use / uses: **Premixed thermal and/or sound insulating Bound EPS (BEPS) mortar made of EPS (N) beads and cement, for the thermal and/or sound insulation of building constructions.**
4. Manufacturer: **ARCHITEKTONIDIS MONOTIKA S.A. "TEKTO HELLAS" 10 Zakka str, Neapoli-Thessaloniki-Greece, PO 56727, Tel: +302310511871, e-mail: tekto@tekto.gr. Manufacturing site: 10th km Thessalonikis - Neochoroudas road, Tel.: +302310782007**
5. AVCP system(s) (system of assessment and verification of constancy of performance): **System 3 (System 1 for Reaction to Fire)**
6. European technical assessment:
MIRTEC SA, an EOTA member, issued the ETA 24/0636, according to Reg. EU 305/2011, on the basis of the EAD 040635-00-1201 "Thermal and/or sound insulation based on bound expanded polystyrene bulk material". The notified body GSH, notification number 0919 issued the certificate of constancy of performance No. 0919-CPR-994.e according to system 1.

7. Declared performance (-es)

Essential characteristics	Declared performance	Harmonized technical specification
Reaction to fire	Euroclass A2-s1, d0	EN 13501-1
Content, emission and/or release of dangerous substances	Cr (VI) < 2ppm	EN 196-10
	HBCDD-free	EAD 040635-00-1201
Water vapour permeability	$\mu = 9,3$	EN 12086
Compressive strength	$\sigma_m = 320$ kPa	EN 826
Compressive creep	$\epsilon_{c10a} = 0,37\%$, $\epsilon_{10a} = 0,48\%$	EN 1606
Thickness and compressibility	NPD	EN 12431
Dimensional stability at 60°C and 90% RH – 48 hours	$\Delta\epsilon_l = 0,1\%$, $\Delta\epsilon_\beta = 0,1\%$, $\Delta\epsilon_d = -0,1\%$	EN 1604
Deformation under 20kPa and 80°C – 48 hours	$\epsilon_2 = 0,32\%$	EN 1605
Point load	NPD	EN 12430
Impact sound reduction	NPD	EN 717-2
Dynamic stiffness	NPD	EN 29052-1
Particle size distribution of EPS	PS5(N)-D0	EN 933-1
Water absorption	$W_p = 1,78$ Kg/m ²	EN 1609
Thermal conductivity	$\lambda_D = 0,067$ W/mK	EN 12667
Density of fresh mortar	230Kg/m ³ ($\pm 15\%$)	EN 1015-6
Bound EPS density	210Kg/m ³ ($\pm 15\%$)	EN 1602
Dry density	190Kg/m ³ ($\pm 15\%$)	EN 1097-3
Moisture sorption	NPD	EN ISO 12571
Alkaline resistance	NPD	EN ISO 175

The performances of the product identified above is in accordance with the performances declared. This declaration of performance is issued according to the Regulation (EU) number 305/2011, under the sole responsibility of the manufacturer identified above.

Table of thickness-thermal resistance R_D for $\lambda_D = \lambda_{(23,50)} = 0,067 \text{ W/mK}$

Thickness cm	R_D $\text{m}^2\text{K/W}$	Thickness cm	R_D $\text{m}^2\text{K/W}$	Thickness cm	R_D $\text{m}^2\text{K/W}$
5,00	0,74	17,50	2,61	30,00	4,47
5,50	0,82	18,00	2,68	30,50	4,55
6,00	0,89	18,50	2,76	31,00	4,62
6,50	0,97	19,00	2,83	31,50	4,70
7,00	1,04	19,50	2,91	32,00	4,77
7,50	1,11	20,00	2,98	32,50	4,85
8,00	1,19	20,50	3,05	33,00	4,92
8,50	1,26	21,00	3,13	33,50	5,00
9,00	1,34	21,50	3,20	34,00	5,07
9,50	1,41	22,00	3,28	34,50	5,14
10,00	1,49	22,50	3,35	35,00	5,22
10,50	1,56	23,00	3,43	35,50	5,29
11,00	1,64	23,50	3,50	36,00	5,37
11,50	1,71	24,00	3,58	36,50	5,44
12,00	1,79	24,50	3,65	37,00	5,52
12,50	1,86	25,00	3,73	37,50	5,59
13,00	1,94	25,50	3,80	38,00	5,67
13,50	2,01	26,00	3,88	38,50	5,74
14,00	2,08	26,50	3,95	39,00	5,82
14,50	2,16	27,00	4,02	39,50	5,89
15,00	2,23	27,50	4,10	40,00	5,97
15,50	2,31	28,00	4,17	40,50	6,04
16,00	2,38	28,50	4,25	41,00	6,11
16,50	2,46	29,00	4,32	41,50	6,19
17,00	2,53	29,50	4,40	42,00	6,26

Signed on behalf of the manufacturer:


Theodore Architektonidis

Chemical Engineer, M.Eng.

Thessaloniki - Greece, 15/11/2024



CE MARKING


24
ARCHITEKTONIDIS MONOTIKA SA "TEKTO HELLAS" Headquarters: 10 Zakka str. Neapoli-Thessaloniki-Greece, PO 56727, Tel: +302310511871 Production site: 10km Thessalonikis-Neochoroudas road, Tel: +302310782007 www.tekto.gr e-mail: tekto@tekto.gr
DoP: POLIPLUSBLU01/2024
ETA 24-0636
Premixed thermal and/or sound insulating Bound EPS (BEPS) mortar made of EPS (N) beads and cement, for the thermal and/or sound insulation of building constructions
<p>Reaction to fire: Euroclass A2-s1, d0 Content, emission and/or release of dangerous substances: Cr (VI) < 2ppm / HBCDD-free Water vapour permeability: $\mu = 9,3$ Compressive strength: $\sigma_m = 320$ kPa Compressive creep: $\epsilon_{c10a} = 0,37\%$, $\epsilon_{10a} = 0,48\%$ Dimensional stability at 60°C and 90% RH – 48 hours: $\Delta\epsilon_l = 0,1\%$, $\Delta\epsilon_\beta = 0,1\%$, $\Delta\epsilon_d = -0,1\%$ Deformation at 20kPa and 80°C – 48 hours: $\epsilon_2 = 0,32\%$ Particle size distribution of EPS: PS5(N)-D0 Water absorption: $W_p = 1,78\text{Kg/m}^2$ Thermal conductivity: $\lambda_D = 0,067$ W/mK Density of fresh mortar: $230\text{Kg/m}^3 (\pm 15\%)$ Bound EPS density: $210\text{Kg/m}^3 (\pm 15\%)$ Dry density: $190\text{Kg/m}^3 (\pm 15\%)$</p>
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