

UL-EU CERTIFICATE

Certificate No. UL-EU-01262-CPR

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Date of Issue 2022-10-31

Certificate Holder Bostik Benelux BV
Denariusstraat 11
4903 RC Oosterhout
The Netherlands

Manufacturer Q/001

Certified Product Type Fire Stopping and Sealing Product: Linear Joint and Gap
Seals

Product Trade Name Bostik FP 404 Fire Retardant PU (Gun)Foam

Trademark N/A

Rating/Classification See Appendix

Harmonised Technical Specifications EAD 350141-00-1106, September 2017

Supporting Documentation ETA-20/1118 of 15/06/2022

Additional information

Expiry date 2032-10-30



A blue ink signature, appearing to read 'Chris Johnson', is written over a horizontal line.

Authorized Certification Decision Maker
Chris Johnson

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of Bostik FP 404 Fire Retardant PU (Gun)Foam for fire stopping where there are joints in or between walls & floors. The detailed scope is given in pages 3 to 7 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes for differing seal configurations and supporting constructions.

The product is certificated on the basis of:

- i) ETA-20/1118
- ii) Inspection and surveillance of factory production control by UL
- iii) Fire resistance test data in accordance with EN 1366-4: 2006+A1:2010 and EN 1366-4:2021
- iv) Classification in accordance with EN 13501-2
- v) Durability and Serviceability as defined in EAD 350141-00-1106

The durability class of Bostik FP 404 Fire Retardant PU (Gun)Foam is Z₂ - intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV.

The surfaces of the material on which Bostik FP 404 Fire Retardant PU (Gun)Foam (and if applicable, Bostik FP 401 Fireseal Acrylic, Bostik FP 402 Fireseal Silicone or Bostik FP 403 Fireseal Hybrid) is applied are thoroughly cleaned and treated with primer and moistened with water when needed. Bostik FP 404 shall be filled in depth into cavity at least to the required minimum thickness of wall or floor. In combination with Bostik FP 401, Bostik 402 or Bostik FP 403 the Bostik FP 404 is used as backing material and it shall be filled in full depth of cavity.



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Product-type: In-situ foam		Intended use: Linear Joint and Gap Seals
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	B-s1,d0
EN 13501-2	Resistance to fire	See pages 5-7
BWR 3 Hygiene, health and environment		
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA2 Declaration of manufacturer
EN 1026:2000	Air permeability (material property)	No performance determined
EAD 350141-00-1106, Annex C & EN 12390-8	Water permeability (material property)	No performance determined
BWR 4 Safety in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EAD 350141-00-1106, Clause 2.2.8	Adhesion	No performance determined
EAD 350141-00-1106, Clause 2.2.12	Durability	Type Z2
EAD 350141-00-1106, Clause 2.2.13	Movement capacity	No performance determined
EAD 350141-00-1106, Clause 2.2.14	Cycling of perimeter seals for curtain walls	No performance determined
EAD 350141-00-1106, Clause 2.2.15	Compression set	No performance determined
EAD 350141-00-1106, Clause 2.2.16	Linear expansion on setting	No performance determined
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	See page 4
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined



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Bostik FP 404 Fire Retardant PU (Gun)Foam sealant installed in 100 mm depth.

Joint width Joint depth	10	20	30	40
	100 mm	100 mm	100 mm	100 mm
$R_{s,w}(C;C_{tr})$	53(-1;-4) dB	51(-1;-3) dB	45(-1;-1) dB	41(-1;-4) dB
$C_{100-5000}; C_{tr;100-5000}$	(0;-4) dB	(-2;-3) dB	(-1;-1) dB	(0;-4) dB
$C_{50-3150}; C_{tr;50-3150}$	(-1;-7) dB	(-1;-5) dB	(-1;-2) dB	(-1;-7) dB
$C_{50-5000}; C_{tr;50-5000}$	(0;-7) dB	(-2;-5) dB	(-1;-2) dB	(0;-7) dB
$D_{n,e,w}$	60 dB	58 dB	52 dB	48 dB
R_w	33 dB	34 dB	30 dB	27 dB



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Bostik FP 404 Fire Retardant PU (Gun)Foam					
Configuration - Wall to wall vertical and horizontal linear joint (rigid wall, density $\geq 600 \text{ Kg/m}^3$, timber density $\geq 460 \text{ kg/m}^3$)					
Substrate	Minimum wall thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	70	N/A	70	N/A	EI 30 – V – X – F – W 8 to 10
					EI 20 – V – X – F – W 10 to 20
	100		100		EI 90 – V – X – F – W 8 to 10
					EI 45 – V – X – F – W 10 to 30
	115		115		EI 120 – V – X – F – W 8
					EI 60 – V – X – F – W 8 to 20
	150		150		EI 45 – V – X – F – W 20 to 30
	200		200		EI 45 – V – X – F – W 8 to 40
Concrete / Wood	100		100		EI 120 – V – X – F – W 8 to 30
					EI 60 – V – X – F – W 30 to 40
					EI 120 – V – X – F – W 8 to 20
					EI 90 – T – X – F – W 8 to 20

Bostik FP 404 Fire Retardant PU (Gun)Foam					
Configuration - Floor to Floor linear joint (rigid wall, density ≥ 600 Kg/m³)					
Substrate	Minimum floor thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	100	N/A	100	N/A	EI 60 – H – X – F – W 8
					EI 45 – H – X – F – W 8 to 20
					EI 30 – H – X – F – W 20 to 30
	150		EI 20 – H – X – F – W 30 to 40		
			EI 120 – H – X – F – W 8 to 20		
			EI 60 – H – X – F – W 20 to 30		
			EI 45 – H – X – F – W 30 to 40		



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Bostik FP 404 Fire Retardant PU (Gun)Foam					
Configuration - Linear joint in wall abutting floor (rigid wall and floor, density ≥ 600 Kg/m³)					
Substrate	Minimum wall/floor thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	100	N/A	100	N/A	EI 60 – T – X – F – W 8
					EI 45 – T – X – F – W 8 to 20
					EI 30 – T – X – F – W 20 to 30
					EI 20 – T – X – F – W 30 to 40
	70 (Wall) / 100 (Floor)		70		EI 45 – T – X – F – W 8 to 15
	150		150		EI 120 – T – X – F – W 8 to 20
					EI 60 – T – X – F – W 20 to 30
					EI 45 – T – X – F – W 30 to 40

Bostik FP 404 Fire Retardant PU (Gun)Foam					
Configuration – Horizontal linear joint in wall and in a wall abutting floor (rigid wall and floor, density ≥ 600 Kg/m³)					
Substrate	Minimum wall/floor thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	70 (Wall) / 100 (Floor)	N/A	70	N/A	EI 45 – T – X – F – W 8 to 15
	100 (Wall) / 150 (Floor)		100		EI 45 – T – X – F – W 8 to 20
					EI 30 – T – X – F – W 20 to 30



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Bostik FP 401 Fireseal Acrylic					
Configuration - Wall to wall vertical linear joint (rigid wall, density ≥ 600 Kg/m³)					
Substrate	Minimum wall thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	115	Unexposed side	16	Bostik FP 404	E240 / EI180 – V – X – F – W 8 to 30
			10		EI240 – V – X – F – W 8
	70	Exposed side	3		E240 / EI 45 – V – X – F – W 8 to 20
	100				EI120 / EI 90 – V – X – F – W 8 to 30
					EI 30 – V – X – F – W 30 to 40

Bostik FP 402 Fireseal Silicone					
Configuration - Wall to wall vertical linear joint (rigid wall, density $\geq 600 \text{ Kg/m}^3$)					
Substrate	Minimum wall thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	115	Unexposed side	8	Bostik FP 404	EI 240 – V – X – F – W 8
			19		E 240 / EI 180 – V – X – F – W 8 to 40
	150	Exposed side	3		EI 60 – V – X – F – W 8 to 50

Bostik FP 403 Fireseal Hybrid					
Configuration - Wall to wall horizontal and vertical linear joint (rigid wall, density ≥ 600 Kg/m³; timber density ≥ 460 kg/m³)					
Substrate	Minimum wall thickness [mm]	Seal position	Minimum seal depth [mm]	Backing material	Fire resistance classification according to EN 13501-2
Concrete	115	Unexposed side	8	Bostik FP 404	EI 240 – V – X – F – W 8
			15		E 240 / EI 180 – V – X – F – W 8 to 25
Concrete / Wood	100		13		EI 120 – V – X – F – W 8 to 20
			10		EI 120 – T – X – F – W 8 to 20
					EI 120 – V – X – F – W 8
Concrete	Exposed side	3	EI 120 – T – X – F – W 8		
			E 120 / EI 45 – V – X – F – W 8 to 40		
			EI 60 – V – X – F – W 8 to 50		
	200				EI 120 – V – X – F – W 8 to 50



Appendix UL-EU Certificate

Certification Mark	UL-EU mark
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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.

