



## **Laboratory for Fire Safety**

*Classification of reaction to fire in accordance with  
EN\_13501-1:2018 of FP 404 Fire Retardant PU  
(Gun)Foam*

*Classification report*

Report number Y 2567-4E-RA-001 dated 11 February 2022

## Laboratory for Fire Safety

*Classification of reaction to fire in accordance with EN\_13501-1:2018 of FP 404 Fire Retardant PU (Gun)Foam*

### *Classification report*

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Notified body no. NB 2264

Product name        **FP 404 Fire Retardant PU (Gun)Foam**

Report number      Y 2567-4E-RA-001

Date                    11 February 2022

Reference            HL/NvD//Y 2567-4E-RA-001

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## 1 Introduction

On behalf of Bostik Benelux BV an investigation was performed with respect to the reaction to fire properties of FP 404 Fire Retardant PU (Gun)Foam.

This classification report defines the reaction to fire classification of the product in accordance with the procedures described in EN 13501-1: 2018.



For this type of measurements the Laboratory for Fire safety has been accredited by the Dutch "Raad voor Accreditatie" (RvA).

The RvA is member of EA MLA (**EA MLA: European Accreditation Organisation MultiLateral Agreement**: <http://www.european-accreditation.org>).

*EA: "Certificates and reports issued by bodies accredited by MLA and MRA members are considered to have the same degree of credibility, and are accepted in MLA and MRA countries."*

## 2 Product description

### 2.1 General

The information in this report is based on information provided by the client.

The product investigated is FP 404 Fire Retardant PU (Gun)Foam, hereinafter also called 'the product'. The product is defined as a linear joint seal.

### 2.2 Harmonised product standard

According to the client there was no harmonised European product standard published at the time the tests were conducted and this report was drawn up.

### 2.3 Product identification

The most important parameters for identifying the product are summarized in Tables 2.1 and 2.2 below.

#### t2.1 General information of product to be tested

Product	FP 404 Fire Retardant PU (Gun)Foam
Date of sample arrival:	26/11/2021
Name of the manufacturer:	Bostik Benelux B.V.
Sampling done by:	W. Treffers
Sampling date:	25/11/2021
Identification of samples:	Table 2.2

Peutz was not involved in the selection of the test specimen (or of its materials). The laboratory cannot make any declaration about the representativeness of the provided specimen and the samples made available.

## t2.2 Additional information of product to be tested

FP 404 Fire Retardant PU (Gun)Foam	
Type of product	Fire resistant polyurethane foam
Description	Bostik FP404 FIRE RETARDANT PU (GUN)FOAM is a 1-component fire resistant polyurethane foam
Application	For fire resistant sealing and filling of joints and seams in stony to stony and stony to wooden substrates
Manufacturer	Bostik Benelux B.V., The Netherlands
Product code	30612850
Batch no.	49873
Colour	Pink
Weight [kg/m <sup>3</sup> ]	15 – 20 kg/m <sup>3</sup>
Specifications	Canister 750 ml
Use of flame retardants	Yes



The values mentioned are the nominal values as given by the client, unless otherwise stated

## 3 Reports and results in support of this classification

### 3.1 Reports

The client has confirmed that the reports provided (see Table 3.1) may be used for this classification.

#### t3.1 Reports in support of classification

Name of laboratory	Name of client	Number and date of report	Test method
Peutz bv	Bostik Benelux BV	Y 2567-2E-RA-001; 11/02/2022	EN 13823:2020
Peutz bv	Bostik Benelux BV	Y 2567-3E-RA-001; 11/02/2022	EN-ISO 11925-2:2010

### 3.2 Results

The results obtained are summarised in Tables 3.2 and 3.3.

#### t3.2 Summary of test results EN-ISO 11925-2

Flame application time 30 s		Number of tests	Results	
Parameter			Continuous parameters (average)	Compliance parameters
Surface exposure	F <sub>s</sub> ≤ 150 mm	6	-	Y
	Ignition of filter paper		-	N

#### t3.3 Summary of test results EN 13823

Parameter	Number of tests	Results	
		Continuous parameters (average)	Compliance parameters
FIGRA <sub>0,2MJ</sub>	[W/s]	0	-
FIGRA <sub>0,4MJ</sub>	[W/s]	0	-
THR <sub>600s</sub>	[MJ]	0.4	-
SMOGRA	[m <sup>2</sup> /s <sup>2</sup> ]	0	-
TSP <sub>600s</sub>	[m <sup>2</sup> ]	2	-
LFS reaching edge		-	N
Flaming droplets/particles	- FDP ≤ 10 s		N
	- FDP > 10 s		N

### 3.3 Classification criteria

The classification to be obtained is based on the classification criteria given in EN 13501-1. In Tables 3.4 and 3.5 these criteria are summarised.

#### t3.4 Classification criteria

Test	Parameter		Class		
	Continuous (average) or compliance		B	C	D
EN-ISO 11925-2	Flame spread $\leq 150$ mm		Y	Y	Y
EN 13823	FIGRA <sub>0,2MJ</sub>	[W/s] $\leq 120$	-	-	-
	FIGRA <sub>0,4MJ</sub>	[W/s] -	$\leq 250$	$\leq 750$	
	THR <sub>600s</sub>	[MJ] $\leq 7,5$	$\leq 15$	-	-
	LFS reaching edge		N	N	-

#### t3.5 Criteria additional classifications

Test	Parameter		Class			Class		
	Continuous (average) or compliance		s1	s2	s3	d0	d1	d2
EN-ISO 11925-2	Ignition of filter paper		-	-	-	N	N	Y
<i>Note: ignition of filter paper leads to classification d2, irrespective of the results for FDP in EN 13823</i>								
EN 13823	SMOGRA	[m <sup>2</sup> /s <sup>2</sup> ] $\leq 30$	$\leq 180$	not s1	-	-	-	
	TSP <sub>600s</sub>	[m <sup>2</sup> ] $\leq 50$	$\leq 200$	or s2	-	-	-	
EN 13823	Flaming droplets/particles (FDP) within 600 s							
	-	FDP $\leq 10$ s	-	-	-	N	Y	-
	-	FDP $> 10$ s	-	-	-	N	N	not d0 or d1

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

### 4.2 Classification

The product, Bostik FP 404 Fire Retardant PU (Gun)Foam, has been classified to its reaction to fire behaviour as: B. The additional classification for the smoke production is: s1, the additional classification for flaming droplets is: d0.

**Reaction to fire classification: B-s1, d0**

### 4.3 Field of application

The classification is only valid for the product (Bostik FP 404 Fire Retardant PU (Gun)Foam) to be used for fire resistant sealing of linear connection and movement joints.

The classification is valid for the following end use applications:

- Bostik FP 404 Fire Retardant PU (Gun)Foam applied against non-combustible walls (A2-s1,d0 or better, e.g. concrete, masonry walls, excluding gypsum plasterboard), with a thickness of at least 9 mm and a density of at least 652.5 kg/m<sup>3</sup>;
- joint dimensions 20 × 10 mm (width × depth) and distance between parallel sealants 100 mm or greater.

## 5 Limitations

There are no limits in time on the validity of this classification document.

This classification document does not represent type approval or certification of the product.



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