

# FPT Flammadur<sup>®</sup> E201

## FIRESTOP SYSTEMS SUMMARY



System Descriptions provided here are for **identification** purposes only, see UL<sup>®</sup> Fire Resistant Directory at [www.ul.com](http://www.ul.com) or go to [www.flammadur.com](http://www.flammadur.com) for details

The [www.flammadur.com](http://www.flammadur.com) website has architectural drawing in dwg and dxf formats



**Fire Protection Technologies, Inc.**

**Properties of Flammadur E201 A and B:**

Life expectancy	50 years
Application method	Manual pump
Material composition	Mostly inorganic
Color	Point A (green paste) Point B (white powder)
Required additive	None, water can be added
Mixing ratio by weight (20kg pail)	9 parts A to 11 parts B (9 kg E201A + 11 kg E201B)
Pot life at 68°F	30-40 minutes
Cure time at 68°F	3 hours
Material needed	100 lbs/ft <sup>3</sup> = 1610 kg/m <sup>3</sup>
Final density	1.5 g/cm <sup>3</sup>
Resistance to water	45 psi for 24 hours
Gamma ray extinction coefficient (decadic)	16.5 inches for Co60 12.7 inches for Cs137
Retrofit	Yes
Storage	Keep dry and from freezing
Shelf-life	1 year

**Shearing Strength of Flammadur® E201**

Material	kN/m <sup>2</sup>	psi
Limestone	1,340	194
Aerated Concrete	890	129
Concrete	1,300	188
Plastic (PVC) Tube	360	52
Steel Tube	1,170	170

<p><b>C-BJ-3008</b></p> <p>F = 3 Hrs T = 2 and 3 Hrs</p>	<p>1 – Concrete 2 – Metallic Sleeve (Optional) 3 – Cables 5A – <b>Flammadur E201 Putty</b> 5B – Flammadur E473 Mortar 5C – Flammadur E424 Mastic</p>	
<p><b>C-BJ-3009</b></p> <p>F = 3 Hrs T = 3/4 and 3 Hrs</p>	<p>1 – Concrete 2 – Cables 4A – Flammadur E473 Mortar 4B – <b>Flammadur E201 Mastic</b></p>	
<p><b>C-BJ-4010</b></p> <p>F = 3 Hrs T = 1-1/2, 2 and 3 Hrs</p>	<p>1 – Concrete 2 – Cable Tray 3 – Cables 5A – <b>Flammadur E201 Mastic</b> 5B – Flammadur E473 Mortar 5C – Flammadur E424 Mastic</p>	

## Fill, Void Or Cavity Materials Certified For Canada

Flammadur<sup>®</sup> E201 Putty for use in through-penetration firestop systems  
in the UL Fire Resistance Directory.


The specific Systems Nos. and the applicable rating information are as follow:

System No.	Rating Hr			
	F	FT	FH	FTH
<a href="#">C-AJ-4061</a>	3	2 and 3	3	2 and 3
<a href="#">C-BJ-3008</a>	3	2 and 3	3	2 and 3
<a href="#">C-BJ-4010</a>	3	1-1/2, 2 and 3	3	1-1/2, 2 and 3

### Flammadur<sup>®</sup> E201A and E201B are available

<b>Pail of E201A</b>	<b>9 Kg (19.8 lbs)</b>	<b>No. 40012</b>
<b>Pail of E201B</b>	<b>11 kg (24.2 lbs)</b>	<b>No. 40013</b>

#### Products and Technical Assistance available from

	<p><b>Fire Protection Technologies, Inc.</b>                  Suite 160 8000 Research Forest Drive The Woodlands, TX 77382                  Website: <a href="http://www.flammadur.com">www.flammadur.com</a></p>	
<p><b>Adolf R. Hochstim, PhD</b>                  Technical Director</p>	<p>e-mail: <a href="mailto:ahochstim@earthlink.net">ahochstim@earthlink.net</a></p>	<p>Phone: (818) 730-7749                  FAX: (936) 271-4114 (Fax only)</p>
<p><b>Charles R. Eminhizer, PhD</b>                  Thermal Physicist</p>	<p>e-mail: <a href="mailto:charles.eminhizer@yahoo.com">charles.eminhizer@yahoo.com</a>  <a href="mailto:ceminhizer@att.net">ceminhizer@att.net</a></p>	<p>Phone: (858) 442-2192</p>

#### Warranty:

The information provided is based upon typical installation conditions and tests Fire Protection Technologies, Inc. believes to be reliable. However, due to a wide variety of possible use conditions, the manufacturer and distributor does not guarantee that typical values expressed will necessarily be obtained. THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. NEITHER SELLER, DISTRIBUTOR, OR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS, OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. Before using, user shall determine the suitability of the product of their intended use, and user assumes all risk and liability whatsoever in connection therewith.

**Product Data Sheet**

FPT E201-7-8-08

No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of the manufacturer, or distributor.