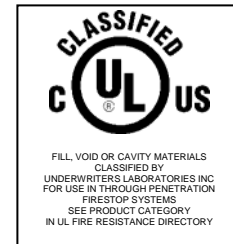


# Flammadur® E201

## Cable Firestop



**Flammadur® E201** is used to seal around electric cables and the inside of corrugated through cable trays to fill all the interstices between cables and cable tray

For more information go to [www.flammadur.com](http://www.flammadur.com)).

### Industry Qualifications:

UL® approved Systems [HCBJ 3008H](#), [HCBJ 3009H](#) and [HCBJ 4010](#)



### Features:

- For sealing around electric cables and the inside of corrugated through
- cable trays to fill all the interstices between cables and cable tray
- UL tested and certified for Systems with cables and cables in cable trays with
- F=3 hours and T up to 3 hours, in combination with Flammadur E473 firestop
- Mortar and Flammadur E424 placed on cables outside wall and floor
- Two component putty becomes rigid in curing

### Installation instructions:

- Cut and remove cable ties in the area of cable tray to be sealed.
- Allow for maximum cable separation and flow of Flammadur® E201 around cables.
- Measure depth of cables in the tray to be sealed and mark with pencil or marker.
- For 4 inch (102 mm) depth of tray, cables should fill only 3 inch (76 mm) depth.
- Cables should be separated from each other.
- According to the Underwriters Laboratories, UL System CBJ-4010, aggregate cross-sectional area of cables in cable tray is not to exceed 39% of the cross-sectional area of the open ladder or corrugated through cable tray.

### Mixing Instructions:

- Flammadur® E201 is a water-based, two component material supplied in containers clearly marked A and B.
- Component A is a green paste and component B is a white powder.
- The components are supplied pre-measured, at a ratio of 9 parts A to 11 parts B, by weight or at 50/50 ratio by volume.
- Water may be added to achieve a more desirable working consistency, however, we recommend no more than 10% of total weight blended.
- Simply blend the A and B components together by hand or by use of a standard "Jiff" paint mixer.
- Flammadur® E201 has a pot life of about 30 minutes at 20°C (68°F).

- Measure the estimated amount of Flammadur® E201 A & B to be utilized and blend according to the above instructions.
- Apply E201 around and between cable bundles in tray by hand or by non-conductive tool.
- The material is to be applied to cables and to the inside of corrugated through cable trays to fill all the interstices between cables and between the cables and the tray.
- Allow the seal material to extend minimum 2 inches beyond both faces of Flammadur® E473.

After all voids and interstices are filled, the periphery of the exterior cable bundles and cable trays are to be coated with a 0.25 inch (6.4 mm) thickness of E201.



## Fire Protection Technologies, Inc.

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

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

**Shearing Strength of Flammadur® E201**

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

## Flammadur<sup>®</sup> E201A and E201B are available from the Master Distributor in

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

### Products and Technical Assistance available from

	<p align="center"><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. 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.