



### Cerfractory Foam Restores the Integrity of Your Fireplace Smoke Chamber

Cerfractory Foam is an insulating, high-temperature refractory mortar, developed specifically for spray coating smoke chamber walls. When it is properly applied, it restores the integrity of your fireplace. Cerfractory Foam expands up to 50% of its volume as it cures to insulate, seal gaps, and smooth the smoke chamber walls as required by both NFPA and IRC codes.

### Protect Your Home with Cerfractory Foam

Cerfractory Foam has been tested and listed by Warnock Hersey Hearth Products Testing Lab to UL Subject Standard 2505 - Cementitious Materials Used for Resurfacing Smoke Chambers of Masonry Fireplaces. This rigorous testing included, Brand Fire Test, Flash Fire Test, Resistance to Action of Acid Test, and Freeze/Thaw Resistance Test. Cerfractory Foam was tested to ASTM C-199 and proven to withstand temperatures in excess of 2900° F, (roughly three times the operation temperature of the average fireplace).

### 20 Year Limited Warranty

When Cerfractory Foam is used to restore the integrity of your smoke chamber, you will have the assurance of knowing your fireplace is made safer and more efficient. Your professionally applied Cerfractory Foam repair is backed by a 20 year material warranty. Ask your chimney professional for details.

# Cerfractory Foam

## Protect Your Home Keep Fire In Its Place

According to the National Fire Protection Association (NFPA), defective smoke chambers are the third leading cause of chimney related house fires. For the safety and efficiency of your fireplace, it is important that any gaps, cracks, or holes in the smoke chamber be sealed and the brick corbelling be made smooth. Because the smoke chamber is a "high heat" area, any gaps, cracks, or holes can allow excessive heat to attack any surrounding wood or combustibles. The jagged corbelling slows the draft and will provide more surface area for highly combustible creosote and soot to form.

### National Fire Protection Association (NFPA)

**211...**Standard For Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances 2010 Edition

**11.2.1.13...**The inner surfaces of the smoke chamber shall be parged coated smooth, with an insulating refractory mortar,...

### 2006 International Residential Code - Fireplaces and Chimneys

**R1001.8.....**Corbelling of masonry units shall not leave unit cores exposed to the inside of the smoke chamber....

Firebrick shall be laid with medium duty refractory mortar conforming to ASTM C199...When the inside surface of the smoke chamber is formed by corbelled masonry, the inside surface shall be parged smooth.

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HeatShield

# Cerfractory Foam

## Smoke Chamber Sealant & Restoration System

- ▶ Improves Chimney Performance
- ▶ Eliminates Hazards
- ▶ Listed to UL 2505
- ▶ 20 Year Warranty



**Restores the Integrity of  
Your Fireplace.**

# Cerfractory Foam

## Smoke Chamber Sealant & Restoration System

Helps ensure the safe and efficient operation of your fireplace.

### Anatomy of Your Fireplace

In your masonry fireplace there is an area called the smoke chamber. In most fireplaces it can be easily viewed by shining a strong light up through the damper. Its function is to safely transition smoke and hot gases from your fireplace to the narrow flue of your chimney.

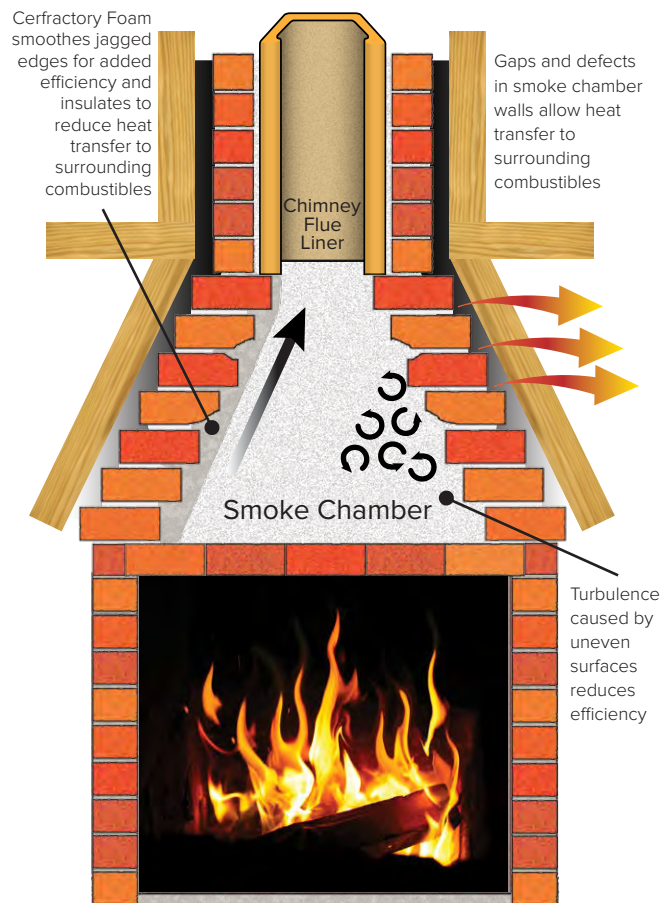
Roughly the shape of an upside down funnel, the smoke chamber starts just above the damper and ends where the chimney begins.

The bricks along the sides of the smoke chamber are often stepped outward one above the other, until they meet the flue. This is a process called "corbelling". The corbelled brick in your smoke chamber will look like an upside down staircase.

Exposed corbelling increases smoke turbulence and reduces the efficiency of the smoke chamber. This allows dangerous creosote and soot to build in the smoke chamber and flue liner. To protect the integrity and increase the efficiency of your smoke chamber, the corbelled areas and any gaps, cracks or jagged edges should be coated and parged smooth with an insulating high-temperature mortar such as Cerfractory Foam.



### Cerfractory Foam restores your fireplace to its originally intended peak level of safety and efficiency



Improves Chimney Performance



Exposed smoke chamber walls **before** Cerfractory Foam application



Cerfractory Foam application seals gaps, cracks, holes and streamlines smoke chamber walls



Smoke chamber walls **after** being parged smooth with Cerfractory Foam.