

# Heat // Shield®

## Cerfractory Foam

### Restores The Integrity Of Your Fireplace

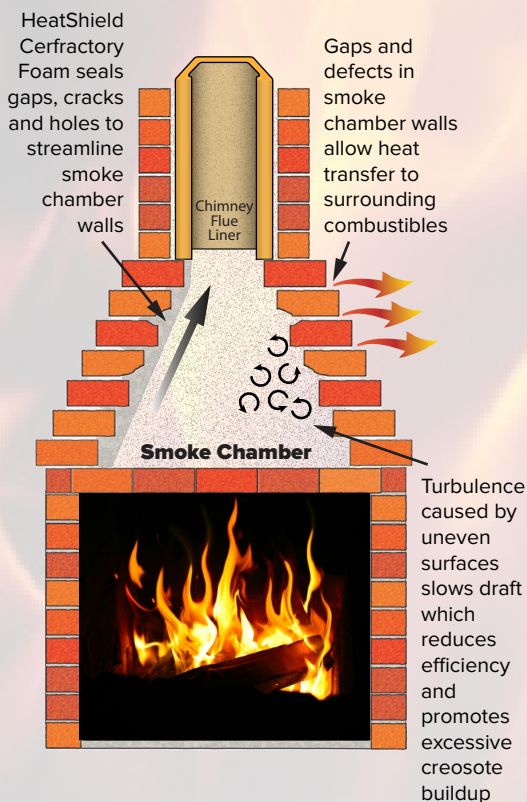
HeatShield Cerfractory Foam Smoke Chamber Sealant helps ensure the safe and efficient operation of your fireplace.

#### 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.

To protect the integrity and efficiency of your fireplace, the smoke chamber should be free of any gaps, cracks, or jagged edges. The corbelled areas of the smoke chamber should be coated with an insulating, high-temperature mortar to fill any gaps and smooth out any jagged edges.



#### Smoke Chamber Or Fire Chamber

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.



**Jagged Corbelling and Exposed Brick Cores (Holes) in a Smoke Chamber**

#### National Fire Protection Association (NFPA) 211Standard 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

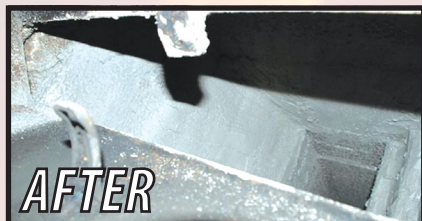
**R1001.8** ..... Corbelling of masonry units shall not leave unit cores exposed to the inside of the smoke chamber.... Firebrick shall be laid with medium duty refractory mortar conforming to ASTM C199....  
**When the inside surface of the smoke chamber is formed by corbelled masonry, the inside surface shall be parged smooth.**

## HeatShield Restores The Integrity Of Your Fireplace Smoke Chamber

HeatShield Cerfractory Foam Smoke Chamber Sealant is a high-temperature, expandable foam. It's applied using a specially designed sprayer to coat the walls of your smoke chamber, restoring the integrity of your fireplace. It seals gaps, cracks, and smoothes up any jagged and corbelled brick edges.



*Exposed Brick Corbells Before  
HeatShield Cerfractory Foam*



*HeatShield Cerfractory Foam  
Application Seals Gaps, Cracks, Holes,  
and Streamlines Smoke Chamber Walls*

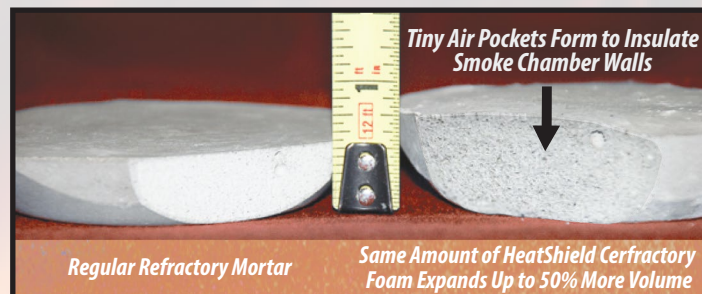
## Economical And Environmentally Friendly

HeatShield Cerfractory Foam is an "eco friendly" product made from recycled and naturally occurring materials. Because the material can be sprayed into the smoke chamber through the narrow damper opening, there is no need to demolish the damper and firebox to gain access for repair.



## Where There Is Heat, Protect Your Home With HeatShield

HeatShield Cerfractory Foam is a hybrid (ceramic/refractory) coating that expands up to 50% of its volume as it cures. It dries rock hard to form "closed cell" air pockets that insulate and seal up gaps, cracks, and holes in your smoke chamber.



HeatShield Cerfractory Foam has been tested and listed by Warnock Hersey to UL subject 2505- Materials used for Resurfacing Smoke Chambers of Masonry Fireplaces. It has also been tested by Orton Ceramic Testing and Research Center to ASTM C199, and is rated a "Super- Duty" refractory mortar; able to withstand temperatures in excess of 2900° F. This surpasses both National Fire Prevention Association (NFPA 211) and International Residential Code, (IRC) which require a medium-duty refractory mortar for use in fireplaces and chimneys.

## 20-Year Limited Warranty

When HeatShield 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 HeatShield Cerfractory Foam repair is backed by a 20-year material warranty. Ask your installer for details.

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