

# CHAMBER SAFE™

## PRODUCT DATA SHEET



### MANUFACTURER:

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### DESCRIPTION:

Chamber Safe is a high performance, cementitious resurfacing and refractory parging material designed to strengthen, streamline, and restore the critical smoke chamber area in masonry chimneys. This material is non-water soluble, listed to UL Subject 2505 and meets ASTM E-196, C199, and C401 as a "High Duty" refractory mortar. Chamber Safe is a registered trademark, ser. no. 87-557, 120 with U.S. Fireplace Products, Inc.

### APPLICATIONS:

When properly installed by a qualified chimney professional, Chamber Safe is designed to strengthen, streamline, and smooth jagged edges and corbelled walls typically found in the smoke chamber and creates a smooth transition between the smoke chamber and the flue liner. The unique insulating properties of Chamber Safe cementitious resurfacing material improves the safety of the chimney by reducing radiant heat transfer through the smoke chamber. Once properly installed by a qualified chimney professional, Chamber Safe meets all major code (IRC & NFPA 211) requirements for parging and smoothing of corbelled smoke chamber walls in residential fireplaces. Chamber Safe is also compatible for use to fill larger holes and cavities found in the firebox.

### PRODUCT ADVANTAGES:

- Superior Adhesion & Workability
- Insulates & Improves Draft Performance
- Adds Structural Strength
- Repairs Brick, Block, Clay Flues & Clay Products

### 25 YEAR LIMITED WARRANTY:

This warranty for Chamber Safe shall apply to the homeowner for twenty-five (25) years when installed by a qualified chimney professional. This warranty shall apply when Chamber Safe is used as directed to repair and seal defects in residential masonry fireplace smoke chamber interiors where a natural draft exists. This warranty shall apply to the homeowner if they continue to own the home where Chamber Safe was originally installed. If the homeowner sells their home, U.S. Fireplace Products, Inc. will honor the warranty for a period of up to five (5) years from the date of installation. This Limited Lifetime Warranty is subject to the following terms and conditions: 1) Installation of Chamber Safe must be done in accordance with manufacturer's written installation instructions, and performed by a qualified chimney professional; 2) The repaired fireplace smoke chamber interior must be cleaned and inspected on an annual basis (intervals of no more than twelve (12) months each from date of installation) by a qualified chimney professional; 3) Corrosive chimney cleaners are not permitted, and will void Chamber Safe's limited warranty; 4) The chimney must have a chimney (rain) cap installed by a qualified chimney professional per NFPA 211 (standard for chimneys, fireplaces, vents and solid fuel-burning appliances); 5) In the event of a chimney fire, Chamber Safe's limited warranty will be void. The repaired smoke chamber and chimney must be inspected and approved by a qualified chimney professional before reinstalling Chamber Safe. Please contact your distributor or U.S. Fireplace Products, Inc. for more information on this warranty.

### SAFETY:

Please use caution when handling Chamber Safe material. Impervious gloves and long-sleeved and long-legged clothing should be worn to prevent skin contact. Safety shoes should be worn to prevent foot injury from accidentally dropped bricks. Use a NIOSH approved respirator when working around material, and when removing this product after service. Avoid contact with skin, eyes, and clothing. After handling this material, wash hands before eating or drinking. This material contains crystalline silica, a substance known to cause cancer. For additional safety information, consult the Safety Data Sheet.

### MIXING & INSTALLATION:

Please read the complete Installation Instructions and Maintenance Instructions for Chamber Safe which are included on each container prior to installation. Contact local building or fire officials about restrictions and installation inspection in your area prior to application. Use of these materials other than as specified in the manufacturer's Installation Instructions and/or Maintenance Instructions is prohibited. Air space clearances between the masonry fireplace and combustible materials should be checked to verify that fireplace is built in accordance with clearance specifications as outlined in the NFPA 211, IRC, and manufacturer's Installation Instructions. Product requires zero clearance from masonry fireplace to combustible material. Installation of Chamber Safe cementitious resurfacing and refractory parging material must be performed by a qualified chimney professional. For additional questions please contact U.S. Fireplace Products, Inc. or your distributor.

**Product Coverage:** One (1) 30 lb. (13.6 kg) container of Chamber Safe refractory parging material will cover four (4) square feet at 1 1/2" thickness or six (6) square feet at recommended 1" thickness.

**PLEASE NOTE:** Chamber Safe is a "cementitious resurfacing and refractory parging material" of dry ingredients of various particle sizes, packaged in 30 lb. (13.6 kg) containers. For best results use only containers and mixing equipment that are free from other masonry or residue. Clean plastic or metal containers work best. Dry mix the container contents before adding water. Wet mix approximately ten (10) lbs. of Chamber Safe at a time using clean, cold water. Clean, cold water is ideal as hot water will quicken set time. For trowel/parge application add 6-8 cups of water for every ten (10) lbs. of Chamber Safe. For cast application add 8-10 cups of water for every ten (10) lbs. Mix very thoroughly. Cast into form configured as may be needed. Quantity of water may be slightly adjusted by the installer to their preference.

**Area Preparation:** Prior to installation of Chamber Safe brush off and remove any loose masonry from the smoke chamber surface. If tar or creosote is present in smoke chamber, thoroughly clean using sweeping or rotary cleaning techniques. Thoroughly check smoke chamber for cracked, loose, or missing bricks, mortar, obstructions or other materials that could prevent the successful application of Chamber Safe. Pre-dampening the smoke chamber is recommended, but not required.

**Step 1** – For trowel/parge application add 6-8 cups of water for every ten (10) lbs. of Chamber Safe. For cast application add 8-10 cups of water for every ten (10) lbs. Ensure personal safety measures are taken prior to mixing. Mix thoroughly with drill and paddle mixer to a mortar-like consistency. Continue adding small amounts of additional water to reach desired consistency. To test for proper consistency, a 'handful-sized' ball of mixed material should fall slightly between gaps of fingers.

**Step 2** – Clear smoke chamber of loose masonry, and creosote. Pre-dampening the surface to which Chamber Safe will be applied prior to installing is recommended, but not required. No standing water should be present.

**Step 3** – Apply Chamber Safe using hand, trowel, or grout bag starting at the top of the smoke chamber next to the flue liner and working down, applying material in layers. To maximize bonding potential, "slap" material in to place before spreading. Applying material from minimum one inch to several inches thick will achieve best results. Apply to all four sides of the smoke chamber evenly, creating a smooth dome-like structure following NFPA 211 standards.

**Step 4** – Once Chamber Safe has been applied, a masonry trowel can be used to smooth out surfaces. Do not over work the material, as this may cause bonding to fail.

**Step 5** – Per the NFPA 211 (standard for chimneys, fireplaces, vents and solid fuel-burning appliances) a chimney (rain) cap must be installed to protect the repaired smoke chamber and chimney interior from excessive moisture.

### CLEAN UP:

Thoroughly rinse tools and mixing containers with water immediately after use.

### CURING:

Finished Chamber Safe applications should be allowed to cure for twenty-four (24) hours with natural air flow. In extreme cold weather, protect applied material during twenty-four (24) hour curing process by plugging chimney just above the smoke chamber and allowing warm room air to enter the smoke chamber. After the twenty-four (24) hour initial curing, the repair should be "heat conditioned" via normal fireplace usage. After the "heat conditioning", the repaired smoke chamber is ready for normal use. Advise homeowners to keep fires small for an additional five days as a precaution. Excessive temperatures could create steam if any residual moisture is still present in repair. Depending on the application and curing conditions, small surface cracks may occur after curing or use and are of no functional concern.

### CLEANING & MAINTENANCE:

Clean smoke chamber as required with plastic or other stiff bristle (non-metallic) brush. Inspect on a regular basis to ensure finished product is performing its intended function. Please see complete "Maintenance Instructions", which are included on each container for more details. Please note, corrosive chimney cleaners are not permitted and will void Chamber Safe's limited warranty. For more information on cleaning and maintenance, please consult the Maintenance Instructions

### FIRST AID MEASURES:

If inhaled: Allow victim to breathe fresh air. Allow the victim to rest. If swallowed: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. For skin contact: Wash with plenty of soap and water. For eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present. Continue rinsing. Seek medical attention immediately. For additional information on first aid measures, consult the Safety Data Sheet.

### PACKAGING:

Available in 30 lb. (13.6 kb), five (5) gallon buckets, 48 per pallet.

### TRANSPORTATION & HANDLING:

Per US Department of Transportation (DOT) standards and regulations, Chamber Safe is not considered hazardous material. Pallets may be stacked. Keep material dry, and store at room temperature.

### PHYSICAL PROPERTIES:

Color: Brown Powder  
Density: 135 PCF  
Physical State: Granular Mixture  
Odor: Earthy  
Shelf Life: Twenty-four (24) months when unopened. For more information on physical properties, please consult the Safety Data Sheet.

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