



# Technical Bulletin

2400 Boston Street, Suite 200, Baltimore, Maryland 21224  
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## DAP® High Heat Fire Resistant Mortar

- **ASTM E-136 rated**
- **Withstands temperatures up to 2000° F**
- **For patching fireplaces and sealing wood-burning stoves**
- **For applications in wood frame construction where an ASTM E-136 non-combustible sealant is required**
- **Interior use only**

**Packaging:** 10.1 fluid ounces (300 ml)

**Color:** Black

**UPC Number:** 18854

### Company Identification:

Manufacturer: DAP Inc., 2400 Boston St., Baltimore, Maryland 21224

Usage Information: DAP HELPLINE: 888-DAP-TIPS, 9:00 am to 7:00 pm EST.

Order Information: 800-327-3339

Also, visit the DAP website at [www.dap.com](http://www.dap.com).

### Product Description:

DAP® High Heat Fire Resistant Mortar is a non-combustible silicate cement used for patching chipped firebrick in fireplaces and sealing wood-burning stoves. Adheres firmly to the firebrick when wet or dry. Sets rock hard when fired. Can also be used for applications in wood frame construction where an ASTM E-136 non-combustible sealant is required, such as sealing around vents, pipes, ducts, and chimneys at ceiling and floor level prior to the application of drywall products. It has been tested in accordance with ASTM E-136 and withstands temperatures up to 2000° F. DAP® High Heat Mortar is not a fire-rated sealant as defined by Underwriters Laboratories and is not appropriate for fire-rated applications.

### Suggested Uses:

- Use to tuck point between firebricks and to repair broken firebricks.
- Use to seal interior openings around vents, pipes, ducts, chimneys and fireplaces at ceiling and floor level in non-rated wood frame, one and two family dwellings where a non-combustible filler compound is specified.
- Installation of firestop, fireblock and/or draftstop construction requires adherence to specific building codes interpreted at the local level. Consult your local building inspector prior to the application of an ASTM E-136 product for these purposes.

### Performance Characteristics:

- A gunnable paste that becomes brick hard when properly dried and fire-cured.
- Contains no asbestos.
- At furnace temperature F of 1382 with maximum surface thermocouple F of 1180 and maximum interior thermocouple F of 350 weight loss percentage equals 24.8.

## **Surface Preparation & Application:**

### **For Patching Firebricks and Sealing Wood Burning Stoves:**

- Prepare the application area by cleaning and removing dirt and debris.
- For best adhesion, thoroughly dampen the surface with a brush and water before application.
- Cut nozzle at 45° angle to an opening not less than 1/4" x 1/8".
- Load cartridge into caulking gun.
- Fill penetrations or voids with mortar.
- Press mortar into crevices and smooth with a putty knife dipped in water.
- Clean excess mortar from surface with a damp cloth.
- Start a low burning fire until product dries (approximately 1 hour). Increase heat gradually to harden the mortar (1-2 hours). Protect the mortar from direct water contact until fire-cured. Joint width and depth should not exceed 1/8" x 1/8". Multiple layers can be applied. Allow 24 hours to cure between layers. Fire-curing is not required until fill is complete.

### **For Sealing Around Penetrations:**

- Prepare the application area by cleaning and removing dirt and debris.
- Cut nozzle at 45° angle to an opening not less than 1/4" x 1/8".
- Load cartridge into caulking gun.
- Fill penetrations or voids with mortar and tool as necessary.
- Clean excess mortar from surface with a damp cloth.

### **For Best Results:**

- Use in temperatures between 40°F – 100°F.
- Store caulk away from extreme heat or cold.
- Do not use for automotive, marine or for below waterline applications.
- Do not use in exterior applications, where excessive joint movement or frequent vibration may occur, or in areas exposed to water or moisture. Product will etch glass and be impossible to remove from glass or enamel surfaces if left to dry.

## **Physical & Chemical Characteristics:**

Base:	Silicate Cement
Solvent:	Water
Color:	Black
Weight Per Gallon:	14.8 lbs
Service Temperature:	0°F to 2000° F
Flash Point:	Greater than 200°F
Freeze Thaw Stability:	Passes 5 cycles
Consistency:	Gunnable Paste
Applications:	Interior only
Shelf Life:	18 months when stored at 20°F
Coverage:	Approximately 56 linear feet at 1/8" diameter bead
MSDS No:	77370

## **Clean Up:**

Remove unwanted mortar from surface immediately with a wet cloth. Dried mortar must be chipped away.

## **Safety:**

See product label or Material Safety Data Sheet for safety information. You can request an MSDS sheet by calling 888-DAP-TIPS or by visiting our website at [www.dap.com](http://www.dap.com).

**Warranty Information:**

DAP warrants this product to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond DAP's control and could affect performance, DAP makes no other warranties, express or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. With respect to this product, DAP's sole obligation shall be, at its option, to replace, or to refund the purchase price for, the quantity of this product proved to be defective. DAP shall not be liable for any other losses or damages, including incidental or consequential damages. Return used container and sales receipt to DAP Inc., Technical Customer Service, 2400 Boston St., Baltimore, MD, 21224, for product replacement.

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