



TECHNICAL DATA SHEET

2400 Boston Street | Suite 200 | Baltimore, MD | 21224

DAP® High Heat Fire Resistant Mortar

PRODUCT DESCRIPTION

DAP® HIGH HEAT FIRE RESISTANT MORTAR is a non-combustible silicate cement for applications in wood frame construction where an ASTM E136 non-combustible sealant is required, such as filling around vents, pipes, ducts and chimneys at ceiling and/or floor level prior to the application of drywall products. It has been tested in accordance with ASTM E136 and withstands temperatures up to 2000°F. It can also be used to patch chipped or cracked firebrick in fireplaces or wood-burning stoves. It adheres firmly to firebrick when wet or dry and sets rock hard when fired. Easy water clean-up. Interior use only.



| PACKAGING | COLOR | UPC |
|-------------------------------|-------|------------|
| 10.1 fl oz (300 mL) Cartridge | Black | 7079818854 |

KEY FEATURES & BENEFITS

- Meets ASTM E136
- Draft, smoke, fireblock sealant for applications in wood-frame construction where an ASTM E136 non-combustible sealant is required
- For repairing small chips or cracked fire brick, re-pointing mortar joints between fire bricks and bonding fire bricks together in fireboxes in fireplaces and wood burning stoves
- Withstands temperatures up to 2000°F
- Sets rock hard once fired
- Adheres well to masonry
- Paintable once heat cured
- Easy water clean-up, low odor, VOC compliant
- Interior use only



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SUGGESTED USES

- Use to tuck point between firebricks and to repair cracked fire bricks
- Use to fill interior openings around vents, pipes, ducts, chimneys and fireplaces at ceiling and/or floor level in non-rated wood frame, one and two family dwellings where 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 E136 product for these purposes.

FOR BEST RESULTS

- Use in temperatures between 40°F to 100°F.
- Do not use for automotive, marine, below waterline or exterior applications.
- Do not use 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.
- If mortar is not heat cured, a white powder will form on the surface.
- Paint/coating application recommended only after heat cure.
- Not rated for fire caulking. Not UL rated.

APPLICATION

Surface Preparation:

Prepare the application area by cleaning and removing crumbling brick, mortar, soot, debris & foreign material from the area to be repaired. For best adhesion, thoroughly dampen the surface with a brush and water before application.

Product Application:

1. Apply in temperatures between 40°F and 100°F.
2. Cut nozzle tip at an angle to an opening not less than 1/4" x 1/8".
3. Load cartridge into caulk gun.
4. Fill penetrations, voids, cracks or holes with the mortar.
5. Clean up excess wet mortar from surfaces & tools with a damp cloth. Clean skin with soap and water. Excess dried mortar must be cut or scraped away.

For Fire Brick Repair in Fireplaces & Wood-Burning Stoves Only:

- After applying, smooth mortar with a putty knife dipped in water.
- Protect the new mortar from direct water contact until fire-cured.
- Air dry for 24 hours, but no longer than 30 days. Allow 24 hours to cure between layers. When tack free, heat for final cure.
- To heat cure, start a small, low burning fire, keeping the heat below 220°F, until product dries (approximately 1 hour).
- Increase heat gradually to 500°F to harden the mortar (for another 1 to 2 hours).



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- 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.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

| Typical Uncured Physical Properties | |
|---|--|
| Appearance/Consistency | Gunnable paste |
| Base Polymer | Silicate cement |
| Volatile | Water |
| Density (lbs per gallon) | 14.8 |
| Odor | Low |
| Clean Up | Water |
| Flash Point | >212°F |
| Freeze Thaw Stability | Keep from freezing |
| Shelf Life | 18 months |
| Coverage | Approximately 99 linear feet at 1/8" diameter bead |
| | |
| Typical Application Properties | |
| Application Temperature Range | 40°F to 100°F |
| Dry Time | Air dry for 24 hours |
| Full Cure Time | 1-2 hours at 500°F |
| | |
| Typical Cured Performance Properties | |
| Service Temperature Range | Up to 2000°F |
| Water Ready Time | Protect from water contact until heat cured |
| Paint Ready Time | Paintable after heat cure |

CLEAN UP & STORAGE

Clean up excess wet mortar with a damp sponge before it skins over. Excess dried mortar must be cut or scraped away. Clean hands and tools with warm water and soap. Store container in a cool, dry place away from heat or cold. Store upside down.



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SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap.com or calling 888-DAP-TIPS.

WARRANTY

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 warranty, 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 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. If product fails to perform when used as directed, within one year of date of purchase, call 888-DAP-TIPS with your sales receipt and product container available, for replacement product or sales price refund.

COMPANY IDENTIFICATION

Manufactured for: DAP Products Inc., 2400 Boston Street, Baltimore, Maryland 21224

Usage Information: Call 888-DAP-TIPS or visit dap.com & click on "Ask the Expert"

Order Information: 800-327-3339 or orders@dap.com

Fax Number: 410-558-1068

Also, visit the DAP website at dap.com