FIRE PATCH

Furnace and Retort Cement
Technical Data Sheet

Product Features
- Meets ASTM-C199
- Meets ASTM-E136
- PCE Value 17-18 at 2700°F
- Pre-mixed & Ready To Use
- Smooth Consistency
- Low V.O.C. (<1 g/l)

Product Description:
Fire Patch Furnace and Retort Cement is a one part, high temperature refractory and retort cement used to repair and seal openings, cracks, joints, and seams encountered in furnaces, fireboxes, chimneys, stoves, flue pipes, and many other refractory applications. Fire patch can withstand temperatures in excess of 2700°F and is classified as a medium duty refractory mortar as per ASTM-C199, and possesses a PCE value of 17-18.

Applications:
- Repairing cracks and seams in medium duty refractory applications
- Sealing openings and joints in medium duty refractory applications
- Suitable for use in applications where resistance to temperatures in excess of 2700°F is required

Standards & Specifications:
Tested To ASTM-C199
Tested To ASTM-E136
PCE value of 17-18 at 2700°F

EcoSeal Standards:
V.O.C. Content: <1 g/l
LEED 2009 (EQ Credit 4.1): 1 point
NAHB Green Guidelines: 5 G1. Points
Complies To: SCAQMD Rule #1168
OTC-Ozone Trans. Comm. CARB
BAAQMD

Physical Properties:
- Chemistry: Silicate Mortar
- Cure Type: Water-Based
- Color: Grey
- Physical Uncured State: Thick Paste
- Physical Cured State: Solid Mortar
- Shelf Life: 12 Months
- Tack Free Time: 10 Minutes at 75°F
- Cure Time: 48 to 72 Hours at 75°F
- Flame Spread: 0
- Smoke Development: 0
- Freeze - Thaw Stability: Excellent - 5 Cycles
- Odor: Odorless
- Weight / Gallon: 14.4 lbs. / gal
- V.O.C. Level: < 1 gram / liter
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Application Procedures:
1. Surface to be repaired or joined should be cleaned thoroughly from any remaining paint, grease, oil, old cement or debris.
2. Apply thin layer of cement to cover all openings. Ensure material is pressed tightly into area being repaired or sealed filling joints or openings completely.
3. Apply a second moderate layer of cement and smooth with trowel, avoiding any twisting motions.
4. Important - Do not allow material to get wet prior to hear cure.
5. Begin firing at low temperature. Do not start with a hot fire. Gradually increase the temperature to allow cement to harden into a solid, durable body, free from pores.

Clean Up Procedures:
Excess product should be cleaned off tools and nonporous surfaces while it is in the uncured state using a dry cloth or paper towels. Excessive amounts may require the use of a solvent such as acetone or mineral spirits. Cured compound should be cut away.

Packaging Options:

<table>
<thead>
<tr>
<th>Part #</th>
<th>Product Description</th>
<th>Color</th>
<th>Case Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP-10</td>
<td>Fire Patch 10.3 Fl. Oz Tube</td>
<td>Gray</td>
<td>12 tubes/case</td>
</tr>
<tr>
<td>FP-8</td>
<td>Fire Patch 8 Fl. Oz. Cup</td>
<td>Gray</td>
<td>24 cups/case</td>
</tr>
<tr>
<td>FP-16</td>
<td>Fire Patch 16 Fl. Oz. Cup</td>
<td>Gray</td>
<td>18 cups/case</td>
</tr>
<tr>
<td>FP-32</td>
<td>Fire Patch 32 Fl. Oz. Tub</td>
<td>Gray</td>
<td>12 tubes/case</td>
</tr>
<tr>
<td>FP-64</td>
<td>Fire Patch 1/2 Gallon Pail</td>
<td>Gray</td>
<td>8 pails/case</td>
</tr>
<tr>
<td>FP-128</td>
<td>Fire Patch 1 Gallon Pail</td>
<td>Gray</td>
<td>4 pails/case</td>
</tr>
</tbody>
</table>

Additional packaging and sizes may be available upon request.

Caution:
Read all directions before using this product. Avoid prolonged contact with skin and eyes as severe irritation may occur. Do not take internally. Keep container tightly closed when not in use. For additional information call 1-800-638-3160.

KEEP OUT OF REACH OF CHILDREN

Disclaimer:
Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. If when applied as directed, this material peels, cracks or separates, it will be replaced without charge upon presentation of proof of purchase and used cartridge. This limited warranty only applies to residential use and damages including consequential damage and other remedies are excluded. No other warranties apply, including fitness for a particular purpose.