

# Red Devil

## Technical Data Sheet

### Fireplace & Stove Silicate Cement: Product No. 0466

#### Description

Fireplace & Stove Silicate Cement is a non-flammable, silicate based compound that sets rock hard when fired. The textured paste adheres well to fire brick, cinder block, metal and mortar. It cures with a warm fire and provides a durable, long lasting seal that withstands temperatures up to 1000°F.

#### Key Features

- Withstands temperatures up to 1000°F
- Prevents drafts
- Non-flammable
- Water clean up

#### Uses

- Ideal for patching fire bricks and sealing wood-burning stoves.
- For use on Fireplaces, Wood-burning Stoves, Flues, Concrete Ovens, Chimney Joints, & Ash Pit Doors.

#### Surface Preparation

Surface should be firm, clean and dry. Remove loose masonry, cement and soot from surface. Dampen surface with water before application.

#### Directions

1. Trim nozzle to desired bead size. Load cartridge into caulking gun and apply.
2. Press cement into crevices and smooth with a putty knife dipped in water.
3. Clean up excess with water.
4. Light a low-burning fire while the compound cures. Once the cement has set (1 to 2 hours), burn the fire hotter for another hour.

<u>Physical/Performance Property</u>	<u>Test Method</u>	<u>Typical Result</u>
<i>Extrusion Viscosity</i>	<i>Semco Gun</i>	<i>12 ± 5 seconds (Semco @ 50 psi)</i>
<i>Weight per Gallon</i>	<i>Gardner Cup</i>	<i>13.5 ± 0.75 lbs</i>
<i>Specific Gravity</i>	<i>Calculated</i>	<i>Approximately 1.62</i>
<i>% Solids (TNV)</i>	<i>Computrac Solids Analyzer</i>	<i>Approximately 68% ± 3</i>
<i>pH</i>	<i>Digital pH Meter</i>	<i>10 to 12</i>
<i>Odor</i>	<i>Subjective</i>	<i>None to mild</i>
<i>Shrinkage</i>	<i>Test Lab</i>	<i>Less than 30%</i>
<i>Application Temperature Range</i>	<i>Test Lab</i>	<i>40°F to 90°F (5°C to 32°C)</i>
<i>Tack-free Time (ASTM D-2377)</i>	<i>Test Lab</i>	<i>30 Minutes – Pass (No Stick)</i>
<i>Full Cure</i>	<i>Test Lab</i>	<i>3-4 Hrs (1-2 hrs warm fire, addl. 1-2 hrs hot fire)</i>
<i>Flash Point (T.O.C.)</i>	<i>Tag Open Cup</i>	<i>Greater than 200°F (94°C)</i>
<i>Freeze/Thaw Stability</i>	<i>Test Lab</i>	<i>Passes 3 cycles</i>
<i>Vertical Slump (ASTM D-2202)</i>	<i>Test Lab</i>	<i>&lt;0.15</i>
<i>Crack Resistance</i>	<i>Test Lab</i>	<i>Excellent</i>
<i>Coverage</i>	<i>Test Lab</i>	<i>50-55 linear feet (3/16" bead)</i>
<i>Service Temperature Range</i>	<i>Test Lab</i>	<i>32°F to 1000°F</i>
<i>Clean-up Solvent (before cure)</i>	<i>Test Lab</i>	<i>Water</i>
<i>Shelf Life</i>	<i>Test Lab</i>	<i>Minimum 1 Year unopened @ 77°F (25°C)</i>
<i>Storage Conditions</i>	<i>Test Lab</i>	<i>Store at temperatures between 40°F &amp; 90°F</i>
<i>Standard Container</i>	<i>Known</i>	<i>10.1 oz. cartridge</i>

## Clean Up

Wash tools with soap & water prior to cure. Wash skin with warm water & mild soap.

## For Best Results

- Surface should be clean & free of contaminants.
- For interior surfaces only
- Store at temperatures above freezing
- Provide low/warm fire for initial curing.

## Color

Black to Dark Charcoal Gray

## Packaging

10.1 fl. oz. cartridge

## Limitations

- For interior use only
- Protect from freezing

## Environmental, Safety & Transportation Information

Product may be irritating to skin, eyes & respiratory tract. Wear appropriate NIOSH approved respirator, gloves & eye protection if contact is likely. Provide adequate ventilation. SEE MSDS FOR ADDITIONAL INFORMATION.

<u>Criteria</u>	<u>Evaluation Method</u>	<u>Status</u>
<i>CARB Compliance</i>	<i>Documents Review</i>	<i>Yes</i>
<i>Prop 65 Ingredients</i>	<i>Documents Review</i>	<i>None</i>
<i>DOT Proper Shipping Name</i>	<i>Review of Regs</i>	<i>Not Regulated by DOT</i>
<i>DOT Hazard</i>	<i>Review of Regs</i>	<i>N/A</i>
<i>DOT UN/NA Number</i>	<i>Review of Regs</i>	<i>N/A</i>
<i>Packing Group</i>	<i>Review of Regs</i>	<i>N/A</i>
<i>VOC Content</i>	<i>Calculated</i>	<i>&lt;1% by weight, &lt; 10 g/L</i>

**CAUTION: NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS. (See MSDS for additional information)**

## LIMITED WARRANTY

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 used as directed, product cracks or separates, it will be replaced without charge upon presentation of proof of purchase and used container. 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.

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SEE MSDS FOR ADDITIONAL DATA/INFORMATION