

**CP 637  
Firestop Mortar**

**Product description**

- Fire-resistant mortar suitable for firestopping large openings

**Product features**

- Quick-setting — forms can be removed in as little as 2 hours
- Superior working properties
- Can be used in horizontal or vertical applications
- Saves time
- Versatile
- Simple mixing

**Areas of application**

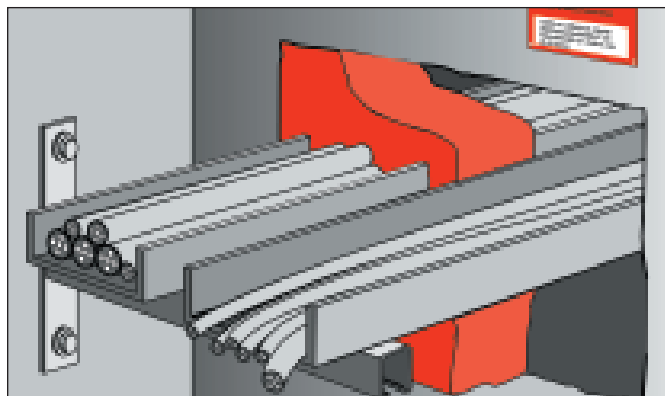
- Sealing medium size to large openings with non-combustible pipes or cable trays
- Permanent fire seal for cables, cable trays and non-combustible pipes

**For use with**

- Concrete and masonry assemblies
- Walls and floors rated up to 4-hours

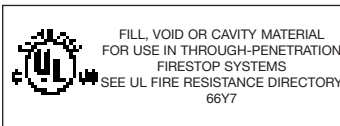
**Examples**

- Large openings containing multiple steel, conduit and EMT pipes
- Large openings with single or multiple cable tray applications



**CP 637 Technical Data**

|   |  |                                  |                                    |
|---|--|----------------------------------|------------------------------------|
| Color   | Light red                                    |                                  |                                    |
| Application temperature (ideal)               | 40°F to 110°F (5°C to 43°C)                  |                                  |                                    |
| Form removal (depending on consistency)       | Approx. 2 hours                              |                                  |                                    |
| Density:                                      | Approx. 40.6 pcf (dry)                       |                                  |                                    |
| Expansion on setting (approx.)                | 0.08%  |                                  |                                    |
| Compressive strength                          | 24 hrs. after casting                        | After full cure                  |                                    |
|   | • Pourable                                   | 508 psi (3.5 N/mm <sup>2</sup> ) | 725 psi (5.0 N/mm <sup>2</sup> )   |
|   | • Plastic                                    | 696 psi (4.8 N/mm <sup>2</sup> ) | 1200 psi (8.3 N/mm <sup>2</sup> )  |
|   | • Stiff                                      | 870 psi (6.0 N/mm <sup>2</sup> ) | 1784 psi (12.3 N/mm <sup>2</sup> ) |
| Surface burning characteristics (ASTM E84-01) | Flame spread: 5<br>Smoke development: 0      |                                  |                                    |
| Yield (30 lb pail)                            | 900-1000 cubic inches depending on mix ratio |                                  |                                    |
| <b>Approvals</b>                              |  |                                  |                                    |
| California State Fire Marshal                 | Listing No. 4485-1200:120                    |                                  |                                    |
| City of New York                              | MEA 239-02-M                                 |                                  |                                    |
| Tested in accordance with                     | • ASTM E 814<br>• UL 1479<br>• ASTM E 84     |                                  |                                    |
| At 73°F (23°C) and 50% relative humidity      |  |                                  |                                    |



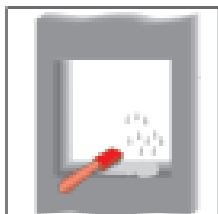
**Installation instructions for CP 637**

**Notice**

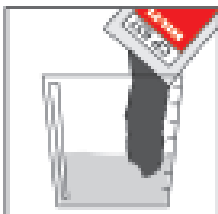
- Before handling, read Material Safety DataSheet and product label for safe usage and health information.
- Instructions below are general guidelines — always refer to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Systems Guide for complete installation information

**Mix ratio** (recommended, mortar to water):

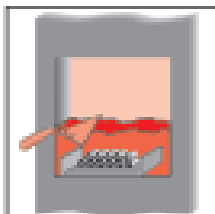
- Trowelable** 30 lb (14.6 kg) : 2 U.S. gal (8 L)
- Pourable** 30 lb (14.6 kg) : 2.5 U.S. gal (9.5 L)



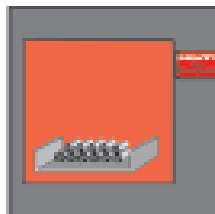
1. Clean penetration. Pre-moisten sides of penetration.



2. Important! First add clean water to separate container. Then slowly add CP 637 to water while stirring by hand or power mixer to ensure smooth, lump-free mix. See table above for mix ratio.



3. Work prepared mortar into opening by troweling, pouring, or pumping with suitable pump. Use forms for large openings. Make sure application has been sealed according to the applicable UL Fire Resistance Directory or Hilti Firestop Manual.



4. Fasten identification plate (if required).

MSDS No.: 284  
 Revision No.: 002  
 Revision Date: 10/12/05  
 Page: 1 of 2

**Product name:** CP 637 Firestop Mortar  
**Description:** Fire resistant plaster for sealing penetrations in concrete and masonry  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

### INGREDIENTS AND EXPOSURE LIMITS

| Ingredients:                 | CAS Number: | TLV:                 | PEL:  | STEL: |
|------------------------------|-------------|----------------------|---|-------|
| Calcium sulphate hemihydrate | 10034-76-1  | 10 mg/m <sup>3</sup> | 15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R) | NE    |
| Perlite                      | 93763-70-3  | 10 mg/m <sup>3</sup> | 15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R) | NE    |

**Abbreviations:** NE = None Established. NA = Not Applicable. (T) = "total" dust. (R) = "respirable" fraction.

### PHYSICAL DATA

|                                 |                          |                             |                |
|---------------------------------|--------------------------|-----------------------------|----------------|
| <b>Appearance:</b>              | Light red powder         | <b>Odor:</b>                | None           |
| <b>Vapor Density: (air = 1)</b> | Not applicable           | <b>Vapor Pressure:</b>      | Not applicable |
| <b>Boiling Point:</b>           | Not applicable           | <b>VOC Content:</b>         | <1% w/w        |
| <b>Evaporation Rate:</b>        | Not applicable           | <b>Solubility in Water:</b> | Soluble        |
| <b>Bulk Density:</b>            | 40.6 lbs/ft <sup>3</sup> | <b>pH:</b>                  | neutral        |

### FIRE AND EXPLOSION HAZARD DATA

|  |  |                          |                |
|--|--|--------------------------|----------------|
| <b>Flash Point:</b>                        | Not applicable   | <b>Flammable Limits:</b> | Not applicable |
| <b>Extinguishing Media:</b>                | Not applicable   |                          |                |
| <b>Special Fire Fighting Procedures:</b>   | Not applicable; as appropriate for the surrounding fire. |                          |                |
| <b>Unusual Fire and Explosion Hazards:</b> | None known   |                          |                |

### REACTIVITY DATA

|                                  |  |
|----------------------------------|--|
| <b>Stability:</b>                | Stable.  |
| <b>Hazardous Polymerization:</b> | Will not occur.                                  |
| <b>Incompatibility:</b>          | Phosphorus and diazomethane.                     |
| <b>Decomposition Products:</b>   | Not applicable                                   |
| <b>Conditions to Avoid:</b>      | Keep away from incompatible materials. Keep dry. |

### HEALTH HAZARD DATA

|  |  |
|--|--|
| <b>Known Hazards:</b>                  | Irritation   |
| <b>Signs and Symptoms of Exposure:</b> | Eyes: Can cause irritation, inflammation and conjunctivitis. Skin: Contact with moist skin or prolonged and repeated contact can cause irritation. Inhalation: No ill effects expected. Ingestion: Effects of ingestion have not been determined. No ill effects expected. |
| <b>Routes of Exposure:</b>             | Dermal; Inhalation   |
| <b>Carcinogenicity:</b>                | No ingredients are classified as a carcinogen by IARC, NTP or OSHA.  |
| <b>Medical Conditions</b>              | Eye, skin, and respiratory conditions.   |
| <b>Aggravated by Exposure:</b>         |  |

### EMERGENCY AND FIRST AID PROCEDURES

|                    |   |
|--------------------|---|
| <b>Eyes:</b>       | Flush with plenty of water. Call a physician if symptoms occur.   |
| <b>Skin:</b>       | Wash with soap and water.   |
| <b>Inhalation:</b> | Move to fresh air.  |
| <b>Ingestion:</b>  | Not a likely route of exposure.   |
| <b>Other:</b>      | Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. |

MSDS No.: 284  
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 Page: 2 of 2

## CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

**Ventilation:** General (natural or mechanically induced fresh air movements).

**Eye Protection:** Safety glasses should be worn while mixing and applying product.

**Skin Protection:** Impermeable gloves recommended.

**Respiratory Protection:** None normally required.

## PRECAUTIONS FOR SAFE HANDLING AND USE

**Handling and Storing Precautions:** Follow label/use instructions. Avoid generating dusts. Use with adequate ventilation. Avoid prolonged or repeated contact. Practice good hygiene; i.e. always wash thoroughly after handling chemical products. Store in a dry location. For industrial use only. Keep out of reach of children.

**Spill Procedures:** Sweep up and place in a salvage container for proper disposal. See disposal guidelines below.

## REGULATORY INFORMATION

**Hazard Communication:** This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard. 29 CFR 1910.1200.

**HMIS Codes:** Health 1, Flammability 0, Reactivity 0, PPE B

**DOT Shipping Name:** Not regulated

**IATA / ICAO Shipping Name:** Not regulated.

**TSCA Inventory Status:** Chemical components listed on TSCA inventory.

**SARA Title III, Section 313:** This product does not contain any ingredients which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).

**EPA Waste Code(s):** Not regulated by EPA as a hazardous waste

**Waste Disposal Methods:** No known restrictions.

## CONTACTS

**Customer Service:** 1 800 879 8000      **Technical Service:** 1 800 879 8000

**Health / Safety:** 1 800 879 6000 Jerry Metcalf (x6704)

**Emergency # (Chem-Trec):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (Other countries)

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.

# Certificate of Compliance

Certificate Number **20060214-R13240K**  
Report Reference **2006 February 14**  
Issue Date **2006 February 14**

Page 1 of 1



*Issued to:* **Hilti, Inc.**  
5400 S 122ND East Ave  
Tulsa, OK 74146 USA


*This is to certify that representative samples of* **Fill, Void or Cavity Materials**  
CP 637

*Have been investigated by Underwriters Laboratories Inc.® in accordance with the Standard(s) indicated on this Certificate.*


*Standard(s) for Safety:* ANSI/UL 1479, CAN/ULC-S115-05

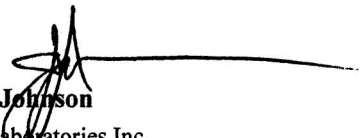
*Additional Information:* CP 637 Mortar for use in Through-Penetration Firestop Systems as currently described in the UL Fire Resistance Directory.

**Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.**

The UL Classification Mark includes: UL in a circle symbol:  with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and, the product category name (product identity) as indicated in the appropriate UL Directory.

**Look for the UL Classification Mark on the product**

Issued by:  
  
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Reviewed by:  
  
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