



CONSIGLI

Est. 1905

Letter of Transmittal

To: Shawn Aube
 Roland's Drywall, Inc.
 62 Greene Street
 Sabattus, ME 04280
 Ph: (207)375-4410 / Fax: (207)375-4698
 shawn@rolandsdrywall.com

Transmittal #: 320
Date: 7/18/2013
Job: 1150 Hyatt Place - Portland

Subject: Submittal 078446 - 001 - Top of Wall Firestopping (APP)

- WE ARE SENDING YOU**
- | | |
|---|--|
| <input type="checkbox"/> Attached | <input type="checkbox"/> Under separate cover via the following items: |
| <input type="checkbox"/> Shop drawings | <input type="checkbox"/> Prints |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order |
| <input type="checkbox"/> Plans | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Specifications | <input checked="" type="checkbox"/> Submittal |

Document Type	Copies	Date	No.	Description
Submittal	1	7/18/13	078446-001 Rev 0	P/D: Fire-Resistive Joint Systems (Para. 2.2) Status: Approved

THESE ARE TRANSMITTED as checked below:

- | | | |
|---|---|---|
| <input type="checkbox"/> For approval | <input checked="" type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ___ copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit ___ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return ___ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Other | |
| <input type="checkbox"/> FOR BIDS DUE | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

Remarks:

Copy To:

Signature: Darlene Guay - CONSIGLI CONST. CO., INC. - ME

If enclosures are not as noted, kindly notify us at once.

Page 1 of 1



CONSIGLI

Est. 1905

Submittal

Job: 1150
 Hyatt Place - Portland
 433 Fore Street
 Portland, ME 04101

Spec Section No: 078446
Submittal No: 001
Revision No: 0
Sent Date: 7/17/2013
Due Date: 7/30/2013



Spec Section Title: Fire-Resistive Joint Systems

Submittal Title: P/D: Fire-Resistive Joint Systems (Para. 2.2)

Contractor:
 Consigli Construction Co., Inc.

Consigli Construction Co., Inc. <small>Contractor's Stamp</small> 15 Franklin Street - Portland, ME 04101	
<input checked="" type="checkbox"/> Approved for A/E Review	<input type="checkbox"/> Revise & Resubmit
<input type="checkbox"/> Approved as Noted for A/E Review	<input type="checkbox"/> Rejected
Spec. Section 078446	Submittal No. 001
Date 7/17/2013	By Matt Hossfeld
<p>If so marked, approval is given for design only. It does not relieve the subcontractor from complying with the requirements of the contract, contract drawings and specifications. The subcontractor shall be responsible for all dimensions, quantities, schedules and field conditions.</p>	

Architect:
 Canal5Studio
 Hart, Tim

ARCHITECT'S REVIEW	Date: 2013-07-18
<p>Approval is for the limited purpose of checking for conformance with information given and the design concept expressed in contract documents. Review is NOT conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. Approval does NOT authorize changes to contract documents.</p>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved as Noted <input type="checkbox"/> Revise / Resubmit <input type="checkbox"/> Rejected / Resubmit <input type="checkbox"/> _____
<p>By: </p> <p style="text-align: right;">JPGauthier</p>	

Engineer / Government / Other Approval



Roland's Drywall, Inc.
62 Greene St. Sabattus, Me. 04280
Telephone: (207) 375-4410 or (207) 375-8723
Fax: (207) 375-4698 E-Mail: info@rolandsdrywall.com

SUBMITTALS

DATE: July 3, 2013

PROJECT: Hyatt Place, Portland, Maine

ARCHITECT: Canal 5 Studio, Portland, Maine

GENERAL CONTRACTOR: Consigli Construction, Portland, Maine

SUBCONTRACTOR: Roland's Drywall, Inc. Sabattus, Maine

SECTION: Top of Wall Fire Stopping

<u>Item</u>	<u>Spec Ref</u>	<u>Mfgr</u>	<u>Page</u>
CP606	2.2/B	Hilti	2
CP672	2.2/B	Hilti	15
CP506	2.2/D	Hilti	22

CP 606 Flexible Firestop Sealant

Product description

- An acrylic based firestop sealant that provides movement capability in fire rated joints and seals through-penetrations applications

Product features

- Silicone free
- Halogen, asbestos and solvent free
- Paintable
- Meets 500 cycle requirements (ASTM E 1966 and UL 2079)
- Smoke and fume resistant
- Easy clean up with water
- Single component systems available
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

Areas of application

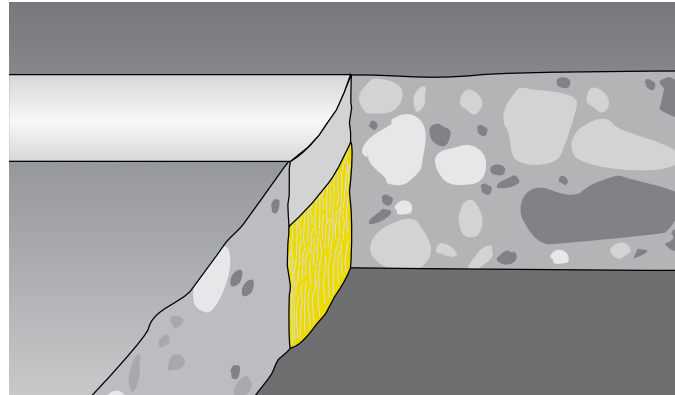
- Sealing construction/expansion joints
- Top-of-wall joints
- Metal pipes
- Cable bundles
- HVAC penetrations

For use with

- Various base materials such as masonry, concrete, gypsum, etc.
- Wall and floor assemblies rated up to 3 hours

Examples

- Where a gypsum wall assembly meets the underside of a metal or concrete deck
- Sealing expansion joints to impede the passage of fire, smoke and toxic fumes
- Sealing around HVAC penetrations through fire-rated assemblies



Technical Data*	CP 606
Chemical basis	Acrylic based firestop sealant
Color	Available in red, white and gray
Application temperature	40°F to 104°F (5°C to 40°C)
Skin-forming time	Approx. 15 min
Curing time	Approx. 3 mm / 3 days
Volume shrinkage	Less than 20%
Movement capability	Approx. 10%
Temperature resistance	-22°F to 176°F (-30°C to 80°C)
Surface burning characteristics (ASTM E 84-96)	Flame Spread: 10 Smoke Development: 0
Sound transmission classification (ASTM E 90-99)	56 (Relates to specific construction)

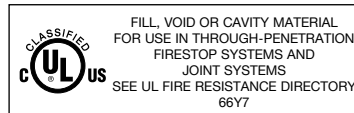
Approvals

- California State Fire Marshal - No. 1452-1200:112
No. 1451-1200:121
No. 4485-1200:132
- City of New York - MEA 100-99-M

Tested in accordance with

- UL 2079
- ASTM E 814
- ASTM E 1966
- ASTM E 84
- UL 1479

*At 73°F (23°C) and 50% relative humidity



Installation instructions for CP 606

Notice

- Before handling, read Material Safety Data Sheet 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

Opening

1. Clean the opening. Surfaces to which CP 606 will be applied should be cleaned of loose debris, dirt, oil, wax and grease. The surface should be moisture and frost free.

Application of firestop

2. Insert fill of mineral wool or backer (as required).
3. Apply firestop over backer.
4. Smooth firestop sealant with a trowel before the skin forms. Once cured, CP 606 can only be removed mechanically.
5. For maintenance reasons, a penetration seal can be

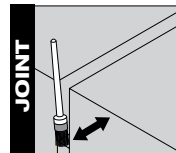
permanently marked with an identification plate and fastened in a visible position next to the seal.

Not for use

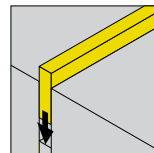
- On areas immersed in water

Storage

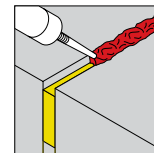
- Store only in the original packaging in a location protected from moisture at a temperature of 40°F to 77°F (5°C to 25°C)
- Observe expiration date on package



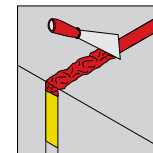
1. Clean opening



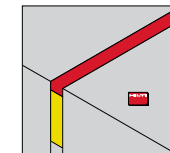
2. Insert backing material compressed per UL System



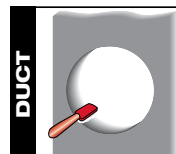
3. Apply CP 606



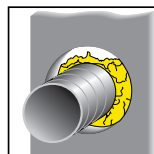
4. Smooth CP 606



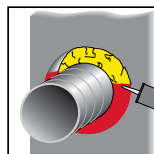
5. Fasten identification plate (if required)



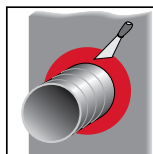
1. Clean opening



2. Insert backing material



3. Apply CP 606



4. Smooth CP 606



5. Fasten identification plate (if required)



Hilti Firestop
Saving Lives
through innovation
and education

Hilti. Outperform. Outlast.

MSDS No.: 267
 Revision No.: 006
 Revision Date: 08/17/04
 Page: 1 of 2

Product name: CP 606 Flexible Firestop Sealant
Description: Fire resistant sealant
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 carbonate	01317-65-3	NA	NA	NE
Polybutene	09003-29-6	NE	NE	NE
Ethylene glycol	00107-21-1	C: 100 mg/m ³ (A)	NE	NA
Pigment	13463-67-7 ¹ or 1309-37-1 ²	NA	NA	NE
Isononyl phthalate	28553-12-0	NE	NE	NE

¹ CP 606 white; ² CP 606 red.

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value.
 STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable.

PHYSICAL DATA

Appearance:	White or red paste.	Odor:	Negligible.
Boiling Point:	Not applicable.	Vapor Pressure:	Not applicable.
Melting Point:	Not determined.	VOC Content:	71.0 g/L
Evaporation Rate:	Not applicable.	Solubility in Water:	Miscible.
pH:	Not determined.	Specific Gravity:	1.55

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not applicable.	Flammable Limits:	Not applicable.
Fire / Explosion Hazards:	None known.		
Extinguishing Media:	As appropriate for surrounding fire; material itself does not burn.		
Special Fire Fighting Procedures:	As appropriate for surrounding fire.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong oxidizing agents.		
Hazardous Decomposition Products:	Not applicable.		
Conditions to Avoid:	Avoid temperature extremes that could shorten the shelf life of this product. See handling and storage requirements.		

HEALTH HAZARD DATA

Known Hazards:	Acute: Product is slightly alkaline; minor irritation is possible. Chronic: None known.
Signs and Symptoms of Exposure:	Eyes — Can cause slight irritation but injury is unlikely. Skin — Can cause irritation with some individuals. Inhalation — No effects expected. Ingestion — Not considered to be a route of exposure. Effects of ingestion have not been determined.
Routes of Exposure:	Inhalation, Dermal.
Medical Conditions	Eye, skin, and respiratory conditions.
Aggravated by Exposure:	
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.

MSDS No.: 267
 Revision No.: 006
 Revision Date: 08/17/04
 Page: 2 of 2

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush with plenty of water while holding eyelids apart. Seek medical attention if any effects develop.
Skin:	Wash with soap and water. Launder clothing before reuse.
Inhalation:	Move to fresh air.
Ingestion:	No ill effects expected. Not a likely route of exposure.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Not required, however, safety glasses should be worn in most industrial settings.
Skin Protection:	Cloth gloves are recommended.
Respiratory Protection:	Not normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air supplied respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Store in a cool dry area. Keep from freezing. Shelf life is one year from date of manufacture if stored between 40° and 77° F (5 - 25° C). For industrial use only. Keep out of reach of children. Keep container sealed when not in use to prevent curing of the product. Avoid contact with the eyes and skin. Practice good hygiene; i.e. wash after using and before eating or smoking.
Spill Procedures:	Allow to cure and place in a container for proper disposal in accordance with all applicable local, state, or federal requirements. Not regulated as a hazardous waste according to federal EPA definitions.

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 (Gloves, Glasses)
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 contains approximately 3% ethylene glycol which is 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:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

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-R13240B**
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**
CP606

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

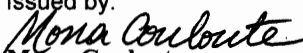
Standard(s) for Safety: **ANSI/UL 1479, ANSI/UL 2079, CAN/ULC-S115-05**

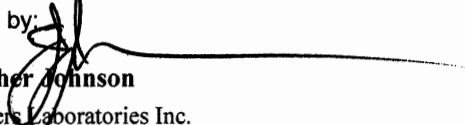
Additional Information: **CP606 Sealant for use in Joint Systems and CP606 Sealant for use in Through-Penetration Firestop Systems as currently described in the UL Fire Resistance Directory.**

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:

Mona Couloute
Underwriters Laboratories Inc.

Reviewed by:

Christopher Johnson
Underwriters Laboratories Inc.

Certificate of Compliance

Certificate Number **20060214-R13240B**
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


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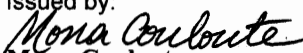
Standard(s) for Safety: ANSI/UL 1479, ANSI/UL 2079, CAN/ULC-S115-05

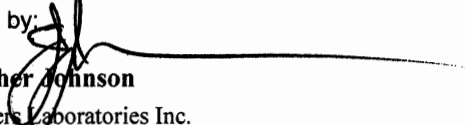
Additional Information: CP606 Sealant for use in Joint Systems and CP606 Sealant for use in Through-Penetration Firestop Systems as currently described in the UL Fire Resistance Directory.

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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:

Mona Couloute
Underwriters Laboratories Inc.

Reviewed by:

Christopher Johnson
Underwriters Laboratories Inc.



Hilti North America
5400 South 122nd East Avenue
Tulsa, OK 74146

P.O. Box 21148 | Tulsa, OK 74121-1148
T 1-800-879-8000 | F 918-252-6742
www.hilti.com

June 27, 2008

To Whom It May Concern:

Re: Hilti CP 606 Flexible Firestop

The Hilti CP 606 Flexible Firestop Sealant is manufactured in Kaufering, Germany.

The CP 606 pail is made of polyethylene and can be completely recycled. There is no post-consumer or post-industrial content in CP 606 and it cannot be recycled. The CP 606 does not contain any Rapidly Renewable Materials. The VOC content for CP 606 is 71.0 grams/liter.

CP 606 is not regulated as a hazardous waste by the Federal EPA Standards. The regulations for the disposal of non-regulated industrial waste can vary from state to state and even city to city. For this reason, you should consult your local and state regulatory agencies for direction on disposal.

Please feel free to contact me at (918) 252-6704 if you have questions.

Sincerely,

Jerry Metcalf MPH, CHMM
Safety/Environmental Manager
Hilti Inc.



MATERIAL SAFETY DATA SHEET

Product name: CP 606 Flexible Firestop Sealant
Description: Fire resistant sealant
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 carbonate	01317-65-3	NE	5 (R) mg/m ³	NE
Polybutene	09003-29-6	NE	NE	NE
Ethylene glycol	00107-21-1	C: 100 mg/m ³ (A)	NE	NA
Pigments:		NE	NE	NE
• Titanium dioxide	13463-67-7 ¹	10 mg/m ³	15 (T) mg/m ³	NE
• Red iron oxide	1309-37-1 ²	5 (R) mg/m ³	10 (fume) mg/m ³	NE
• Black Iron oxide	1317-61-9 ³	NE	NE	NE
Isononyl phthalate	28553-12-0	NE	NE	NE

¹ CP 606 white; ² CP 606 red; ^{1,3} CP 606 grey

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. (R) = Respirable dust (T) = Total dust (A) = Aerosol

PHYSICAL DATA

Appearance:	White, red, or grey paste.	Odor:	Negligible.
Boiling Point:	Not applicable.	Vapor Pressure:	Not applicable.
Melting Point:	Not determined.	VOC Content:	71.0 g/L
Evaporation Rate:	Not applicable.	Solubility in Water:	Miscible.
pH:	Not determined.	Specific Gravity:	1.55

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not applicable.	Flammable Limits:	Not applicable.
Fire / Explosion Hazards:	None known.		
Extinguishing Media:	As appropriate for surrounding fire; material itself does not burn.		
Special Fire Fighting Procedures:	As appropriate for surrounding fire.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong oxidizing agents.		
Hazardous Decomposition Products:	Not applicable.		
Conditions to Avoid:	Avoid temperature extremes that could shorten the shelf life of this product. See handling and storage requirements.		

HEALTH HAZARD DATA

Known Hazards:	Acute: Product is slightly alkaline; minor irritation is possible. Chronic: None known.		
Signs and Symptoms of Exposure:	Eyes - Can cause slight irritation but injury is unlikely. Skin - Can cause irritation with some individuals. Inhalation - No effects expected. Ingestion - Not considered to be a route of exposure. Effects of ingestion have not been determined.		
Routes of Exposure:	Inhalation, Dermal.		

Medical Conditions Aggravated by Exposure:

Eye, skin, and respiratory conditions.

Carcinogenicity:

No ingredients are classified as a carcinogen by IARC, NTP or OSHA.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:

Flush with plenty of water. Contact a Physician if symptoms occur.

Skin:

Wash with soap and water.

Inhalation:

Move victim to fresh air. Call a Physician if symptoms occur.

Ingestion:

Seek medical attention. Do not induce vomiting unless directed by a Physician. Never give anything by mouth to an unconscious person.

Other:

Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:

General (natural or mechanically induced fresh air movements).

Eye Protection:

Safety glasses with side shields.

Skin Protection:

Impermeable gloves are recommended.

Respiratory Protection:

Not normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air supplied respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:

Store in a cool dry area. Keep from freezing. Shelf life is one year from date of manufacture if stored between 40° and 77° F (5 - 25° C). For industrial use only. Keep out of reach of children. Keep container sealed when not in use to prevent curing of the product. Avoid contact with the eyes and skin. Practice good hygiene; i.e. wash after using and before eating or smoking.

Spill Procedures:

Allow to cure and place in a container for proper disposal in accordance with all applicable local, state, or federal requirements. Not regulated as a hazardous waste according to federal EPA definitions.

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 (Gloves, Glasses)

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 contains approximately 3% ethylene glycol which is 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:

Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

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.



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 100-99-M Vol. 6

Manufacturer: Hilti, Inc., 5400 S. 122 E. Avenue, Tulsa, OK 74146

Trade Name(s): Hilti

Product: Fill, void or cavity material for fire protection

Pertinent Code Section(s): 27-345

Prescribed Test(s): UL 2079, FS 5-19 (ASTM E814)

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): File R12340

Description: Fill, void or cavity material for fire-rated construction joints. The Hilti CP 606 Flexible Firestop Sealant shall be applied in accordance with Underwriters Laboratories, Inc. system number listed below in achieving the required fire resistance ratings.

System No.	Fire Protection Ratings (HR)	
	F	T
CAJ1149	2	0
CAJ1150	3	0
CAJ1151	2	0
CAJ1152	2	0
CAJ1158	2	0
CAJ1177	2	0
CAJ 1372	3	0
CAJ1435	2	1/4
CAJ1453	2	1/4
CAJ1517	2	0

System No.	Fire Protection Ratings (HR)	
	F	T
CAJ2094	2	0
CAJ2110	3	0
CAJ3070	3	0
CAJ3181	3	0
CAJ5048	2	2
CAJ5265	2	0, 1/2
CAJ7051	3	1
CAJ7084	2	0
FA2025	2	2
FC0002	1, 2	1, 2
FC1009	1, 2	1, 2
FC1096	1	1
FC1106	1	1/4
FC1134	1	0
FC2242	1	3/4
FC2262	1	1
FC2263	1	3/4
FC3071	1	1
FC3074	1	1
FC5065	1	3/4
FC5066	1	1
FC7025	1	0
FC8032	1	1/4
WJ1124	2	0
WJ1128	2	0
WJ1191	1	0
WJ3060	2	0
WJ5134	2	1
WJ7001	1 2	0
WJ7021	1, 2	0
WJ7022	1,	0
WJ7085	2 2	1/2
WL1170	1, 2	0
WL1290	1,	0
WL1297	2 2	0
WL1304	1,	0
WL1389	1 2	0
WL3065	1, 2	0
WL5257	1,	0, 1
WL7003	1 2	0
WL7040	1, 2	0
WL7042	1, 2	0
WL7130	1, 2	0
WL7143	1, 2	0, 1/2
BWS0001	1, 2	1, 2
BWS0002	1,	1, 2
FFD0052	2	2
FFD0055	3	3

System No.	Fire Protection Ratings (HR)	
	F	T
FFD1012	2	2
FWD0041	2	2
FWD0042	3	3
FWD1012	2	2
FWD1043	2	2
HWD0045	1, 2	1, 2
HWD0077	1, 2	1, 2
HWD0081	2	2
HWD0083	1, 2	1, 2
HWD0085	1, 2	1, 2
HWD0154	1, 2	1, 2
HWD0155	2	2
HWD0184	1, 2	1, 2
HWD0209	1, 2	1, 2
HWD0225	2	2
HWD0268	2	2
HWD0324	1, 2	1, 2
HWD0342	2	2
HWD0396	1, 2	1, 2
HWD0403	3	3
HWD1009	2	2
HWS0054	1, 2	1, 2
HWS0055	1,	1, 2
WWD0032	2	2
WWD0040	1, 2	1, 2
WWD0046	3	3
WWD1012	2	2
WWS0042	2	2
WWS0048	1,	1, 2

Terms and Conditions: The above-described fill, void or cavity material, used to fill the remaining voids in wall assemblies with the above-described fire protection rating is accepted with the following conditions:

1. Electrical trays, cables, mechanical piping or ductwork passing through the assembly, be installed in accordance with the manufacturer's application instruction.
2. Suitable support angles and fasteners are required for respective assemblies shall be provided in accordance with manufacturer's recommendations.
3. All shipments and deliveries of such materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance September 26, 2008

Examined By Sir Deshpande

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



LISTING SERVICE

LISTING No. 1452-1200:112 Page 1 of 1

CATEGORY: Floor-to-Floor/Floor-to-Wall Joint Systems

LISTEE: Hilti, Inc., 5400 S. 122nd East Ave, Tulsa, OK 74146
Contact: *Clay Hensley (918) 252-6216 Fax (918) 254-1679

DESIGN: Type CP606 Flexible Firestop Sealant for use in floor-to-floor and floor-to-wall joint systems. Refer to listee's data sheet for detailed product description and operational considerations.

RATING:	System No.	Assembly Rating
	FF-D-1012	2 Hr.
	FW-D-1012	2 Hr.

INSTALLATION: In accordance with listee's printed installation instructions, UL Fire Resistance Directory, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, classification and UL label.

APPROVAL: Listed as firestop spray for use in floor-to-floor and floor-to-wall joint system when constructed and installed in accordance with UL Fire Resistance Directory. Approved systems:

FF-D-1012 and FW-D-1012

NOTE: Not approved for use in Head-of-Wall or Wall-to-Wall joint systems.

*Rev. 06-20-2006



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **JUNE 10, 2008**

Listing Expires June 30, 2009

Authorized By: **BEN HO, Chief**
Fire Engineering Division

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



LISTING SERVICE

LISTING No. 1451-1200:121 Page 1 of 1

CATEGORY: Head-of-Wall/Wall-to-Wall Joint Systems

LISTEE: Hilti, Inc., 5400 S. 122nd East Ave, Tulsa, OK 74146
Contact: *Clay Hensley (918) 252-6216 Fax (918) 254-1679

DESIGN: Type CP606 Flexible Firestop Sealant for use in head-of-wall and wall-to-wall joint systems. Refer to listee's data sheet for detailed product description and operational considerations.

RATING:	<u>System No.</u>	<u>Assembly Rating</u>
	HW-D-0045	2 Hr.
	WW-D-0032	2 Hr.

INSTALLATION: In accordance with listee's printed installation instructions, UL Fire Resistance Directory, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, rating, and UL label.

APPROVAL: Listed as firestop sealant for use in head-of-wall and wall-to-wall joint system when constructed and installed in accordance with UL Fire Resistance Directory. Approved for UL System Design Nos. HW-D-0045 and WW-D-0032.

*Rev. 06-20-2006



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **JUNE 10, 2008**

Listing Expires June 30, 2009

Authorized By: **BEN HO, Chief**
Fire Engineering Division

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



LISTING SERVICE

LISTING No. 4485-1200:132 Page 1 of 1

CATEGORY: Opening Protection (Firestopping)

LISTEE: Hilti, Inc., 5400 S. 122nd East Ave, Tulsa, OK 74146
Contact: Clay Hensley (918) 252-6216 Fax (918) 254-1679

DESIGN: Model CP 606 Flexible Firestop Sealant. Refer to listee's printed data sheet and UL Fire Resistance Directory for additional detailed product description and operational considerations.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, type identification, hourly rating and UL label.

APPROVAL: Listed as firestop sealant for use as fill, void or cavity material in Through-Penetration Firestop Systems of 1 or 2 hour rating. Approved under Through-Penetration Firestop Systems: W-L-1297, W-J-1128 and C-AJ-1517 Refer to UL's Fire Resistance Directory for detailed construction.

07-30-2006 jw



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **JUNE 10, 2008**

*Listing Expires **June 30, 2009***

Authorized By: **BEN HO, Chief**
Fire Engineering Division

CP 672
Speed Spray

Product description

- A sprayable fire-rated mastic for construction joints where maximum movement is required

Product features

- Sprayable or apply by brush
- Maximum flexibility, meets 500 cycle requirements (Class II & III Approval) (ASTM E 1966 & UL 2079)
- Quick and easy installation with the Spray Tech EPX 2355 or 2555 Sprayers can save you time and money
- CP 672 Speed Spray contains no halogens, solvents or asbestos so it is safe to use and won't harm the environment
- Water based formulation so spills and over-spray clean up quickly and easily
- Paintable
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

Areas of application

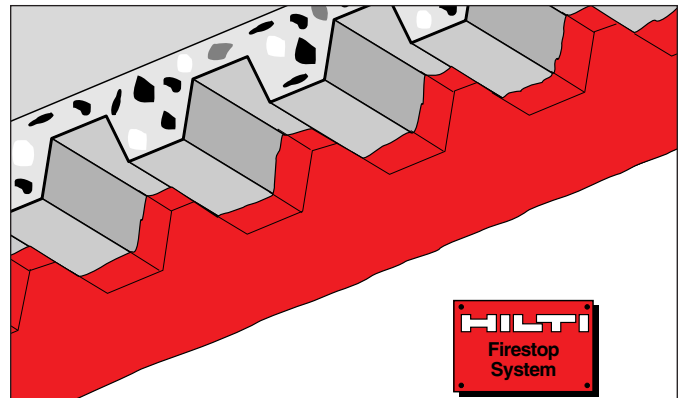
- Top-of-wall joints
- Curtain wall / edge of slab
- Expansion joints

For use with

- Concrete, masonry and gypsum wall assemblies
- Wall and floor / wall assemblies rated up to 4 hours

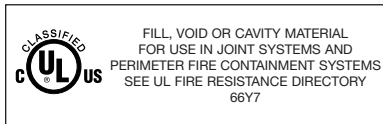
Examples

- Where a gypsum wall assembly meets the underside of a metal or concrete deck
- Where a concrete floor assembly meets with non-rated exterior wall (concrete, glass, etc.)
- Where two concrete floor/wall assemblies meet



CP 672 Technical Data

Density	Approx. 9 lb/gal (1.25 g/cm ³)
Color	Red
Application temperature	40°F to 104°F (5°C to 40°C)
Temperature resistance	-40°F to 176°F (-40°C to 80°C)
Consistency	Sprayable liquid
Chemical basis	Latex based dispersion
Working time	30–45 minutes
Cure time	Approx. 48 hours @ 73°F, 50% humidity
Ph-value	Approx. 8.0
Movement capability	Up to 50%
Surface burning characteristics (ASTM E 84-06)	Flame spread: 10 Smoke development: 10
Sound transmission classification (ASTM E 90-99)	55 (Related to specific construction)
Approvals	
California State Fire Marshal	Listing No. 1451-1200:114 Listing No. 1452-1200:109 MEA 99-99-M MEA 132-01-M
City of New York	
Tested in accordance with	• UL 2079 • ASTM E 1966 • ASTM E 84 • ASTM E 2307
At 73°F (23°C) and 50% relative humidity	



Installation instructions for CP 672

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

Opening

1. Clean the opening. Surfaces to which CP 672 will be applied should be cleaned of loose debris, dirt, oil, wax and grease. The surface should be moisture and frost free.

Application of firestop spray

2. Mineral wool packing: Install the prescribed back filling material type and depth to obtain desired rating.

3. Application of firestop spray: Apply CP 672 to the required depth in order to obtain the desired rating. Make sure CP 672 contacts all surfaces and overlaps beyond all surrounding surfaces (Refer to UL System). Spray Tech Sprayers have been successful in applying CP 672 Firestop Joint Spray. Hilti recommends the use of the Spray Tech EPX 2355 (for application temperatures above 50°F) or EPX 2555 Sprayers. CP 672 may also be brushed on with a paint brush. Contact Hilti Technical Support for more information.
4. Curing time: Allow 48 hours (at 73°F / 23°C) for the CP 672 to fully cure.

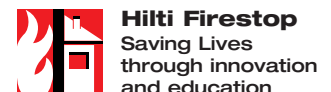
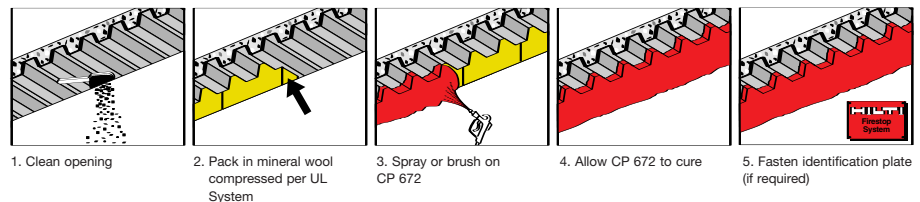
5. Identification: For maintenance reasons all CP 672 applications can be permanently marked with an identification plate and fastened in a visible position next to the seal.

Not for use

- In areas underwater
- On hot surfaces (above 176°F)

Storage

- Store only in the original packaging at temperatures 40°F to 77°F (5°C to 37°C)
- Observe expiration date on package



Certificate of Compliance

Certificate Number 20060214-R13249D

Report Reference 2006 February 14

Issue Date 2006 February 14

Page 1 of 1



**Underwriters
Laboratories Inc.**

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
CP672**

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

Standard(s) for Safety: ANSI/UL 1479, ANSI 2079, ASTM E2307, CAN/ULC-S115-05

Additional Information: CP672 Firestop Joint Spray for use in Joint Systems, CP672 Firestop Spray for use in Perimeter Fire Containment Systems and CP672 Firestop Joint Spray 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:

Mona Couloute
Mona Couloute

Underwriters Laboratories Inc.

Reviewed by:

Christopher Johnson
Christopher Johnson

Underwriters Laboratories Inc.



Hilti North America
5400 South 122nd East Avenue
Tulsa, OK 74146

P.O. Box 21148 | Tulsa, OK 74121-1148
T 1-800-879-8000 | F 918-252-6742
www.hilti.com

June 27, 2008

To Whom It May Concern:

Re: Hilti CP672 Speed Spray Firestop Sealant

The Hilti CP 672 Speed Spray Firestop Sealant is manufactured in Tampa, Florida.

The CP 672 pail is made of polyethylene and can be completely recycled. There is no post-consumer or post-industrial content in CP 672 and it cannot be recycled. The CP672 does not contain any Rapidly Renewable Materials. There is no detectable VOC content in CP 672.

CP 672 is not regulated as a hazardous waste by the Federal EPA Standards. The regulations for the disposal of non-regulated industrial waste can vary from state to state and even city to city. For this reason, you should consult your local and state regulatory agencies for direction on disposal.

Please feel free to contact me at (918) 252-6704 if you have questions.

Sincerely,

Jerry Metcalf MPH, CHMM
Safety/Environmental Manager
Hilti Inc
w (918) 252 6704
f (918) 252 6520
jerry.metcalf@hilti.com



MSDS No.: 268
Revision No.: 010
Revision Date: 06/25/07
Page: 1 of 2

MATERIAL SAFETY DATA SHEET

Product name: CP 672 Speed Spray
Description: Fire rated mastic for construction joints
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: mg/m ³	PEL: mg/m ³	STEL: mg/m ³
Acrylic polymer	Mixture	NE	NE	NE
Aluminum hydroxide	21645-51-2	NE	NE	NE
Calcium carbonate	1317-65-3	10	15 (T); 5 (R)	NE
Calcined kaolin	66402-68-4	NA	NA	NE
Diisononyl phthalate	68515-48-0	NE	NE	NE
Ethylene glycol	107-21-1	NE	NE	C: 100
Pigments:				
• Red iron oxide	1309-37-1 ¹	5 (R)	10 (fume)	NE
• Black iron oxide	1317-61-9 ²	NE	NE	NE
• Titanium dioxide	13463-67-7 ^{2,3}	10	15 (T)	NE
	¹ CP672 red	² CP672 grey	³ CP672 white	

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. C = Ceiling. NE = None Established. T = Total dust. R = Respirable dust

PHYSICAL DATA

Appearance:	Red, grey, or white sprayable paste	Odor:	Mild odor
Vapor Density: (air = 1)	Not applicable	Vapor Pressure:	Not determined
Boiling Point:	Not determined	VOC Content:	0.0 g/L
Evaporation Rate:	Not determined	Solubility in Water:	Soluble
Specific Gravity:	1.3	pH:	8.5 - 9.5

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	None	Flammable Limits:	Not applicable
Extinguishing Media:	As appropriate for surrounding fire (e.g. Water, Carbon Dioxide, Dry Chemical, Foam)		
Special Fire Fighting Procedures:	Wear full protective clothing. A NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.		
Unusual Fire and Explosion Hazards:	None known. Thermal decomposition products such as oxides of carbon and nitrogen can be produced under fire conditions. See below.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Metal salts will coagulate this product		
Decomposition Products:	Thermal decomposition can yield oxides of carbon and nitrogen.		
Conditions to Avoid:	Avoid temperature extremes which could shorten the shelf-life of this product; i.e. below 40° and above 77° F. (See handling and storage requirements).		

HEALTH HAZARD DATA

Known Hazards:	Acute: No effects expected; irritation is possible. Chronic: None known		
Signs and Symptoms of Exposure:	Eyes: Can cause irritation or watering but injury is unlikely. Skin: Irritation is possible with some individuals. Inhalation: No effects expected. Ingestion: Effects of ingestion have not been determined. Considered to have a low acute oral toxicity.		
Routes of Exposure:	Contact.		

Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	None known

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush with plenty of water. Contact a Physician if symptoms occur.
Skin:	Wash with soap and water. Seek medical attention if any effects persist.
Inhalation:	Move victim to fresh air. Contact a Physician if symptoms occur.
Ingestion:	Do not induce vomiting unless directed by a Physician. Contact a Physician immediately.
Other:	Referral to a Physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	While spraying, chemical goggles are recommended. As a minimum, wear safety glasses with side shields.
Skin Protection:	Impermeable (neoprene or rubber) gloves recommended.
Respiratory Protection:	None normally required.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Store in a cool dry area. Keep from freezing. Store between 40° and 77° F. For industrial use only. Keep out of reach of children. Use with adequate ventilation. Keep container closed when not in use. Do not get into the eyes. Avoid prolonged or repeated contact with the skin. Practice good hygiene; i.e. wash after using and before eating or smoking.
Spill Procedures:	Wipe away spilled material before it hardens. Place in a container for proper disposal in accordance with all applicable local, state, or federal requirements.

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 (Glasses, Gloves)
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 contains 1 – 2.5% ethylene glycol (CAS 107-21-1) which is 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:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

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.

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



LISTING SERVICE

LISTING No. 1452-1200:109

Page 1 of 1

CATEGORY: Floor-to-Floor/Floor-to-Wall Joint Systems

LISTEE: Hilti, Inc., 5400 S. 122nd East Ave, Tulsa, OK 74121
Contact: *Clay Hensley (918) 252-6216 Fax (918) 254-1679

DESIGN: Type CP 672 firestop joint spray for use in floor-to-floor and floor-to-wall joint systems.
Refer to listee's data sheet for detailed product description and operational considerations.

RATING:	System No.	Assembly Rating
	FF-D-1013	2 Hr.
	FW-D-1013	2 Hr.

INSTALLATION: In accordance with listee's printed installation instructions, UL Fire Resistance Directory, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, classification and UL label.

APPROVAL: Listed as firestop spray for use in floor-to-floor and floor-to-wall joint system when constructed and installed in accordance with UL Fire Resistance Directory. Approved systems:

FF-D-1013 and FW-D-1013

NOTE: For Head-of-Wall or Wall-to-Wall joint systems, see CSFM Category 1451.

*Rev. 06-20-2006



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **JUNE 10, 2008**

Listing Expires June 30, 2009

Authorized By: **BEN HO, Chief**
Fire Engineering Division



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 132-01-M Vol. 5

Manufacturer: Hilti, Inc., 5400 S. 122 E. Avenue, Tulsa, OK 74146

Trade Name(s): Hilti

Product: Fill, void or cavity material for fire protection

Pertinent Code Section(s): 27-345

Prescribed Test(s): RS 5-19 (ASTM E814, UBC26-9, ASTM E119, ASTM E2307-04)

Laboratory: Omega Point Laboratories, Inc

Test Report(s): Project No. 15835-115959

Description: Fill, void or cavity material for fire-rated perimeter fire-barrier systems. The Hilti CP-672 Firestop Spray shall be applied in accordance with Omega Point Laboratories, Inc. system number listed below in achieving the required fire resistance ratings.

System No.	Fire Protection Ratings (Hours)	
	F	T
CEJ216P	2	1-1/2
CEJ244P	2-1/4	2-1/4
CEJ245P	2-1/4	2-1/4
CEJ246P	2	1-1/2
CEJ259P	2	2
CEJ260P	2	2
CEJ261P	2	2
CEJ262P	2	2
CEJ263P	2	2
CEJ264P	2	1
CEJ265P	2	1

CP 506 Smoke and Acoustic Sealant

Applications

- Sealing construction joints and through-penetration openings in non fire-rated acoustical assemblies and smoke partitions (Not for use in fire-rated applications)

Advantages

- Easy to dispense, apply and tool
- Excellent airborne sound insulation properties
- Low shrinkage after curing
- Easy cleaning with water
- Paintable

Tested / evaluated in accordance with:

- ASTM E 90
- ASTM C 834
- ASTM E 84
- ASTM C 919



Restricts smoke migration



Excellent sound insulation characteristics with application based testing in accordance with ASTM E 90.

Technical Data	CP 506
Color	white
Chemical basis	acrylic
Storage and transport temperature range	40°F to 77°F (5°C to 25°C)
Curing time (73°F / 50% relative humidity)	approx. 3 mm / 3 days
Skin-forming time (73°F / 50% relative humidity)	approx. 15 min
Application temperature range	40°F to 104°F (5°C to 40°C)
Shelf life	24 months
Sound transmission classification (ASTM E90)	STC 63 (per tested construction type)
Movement capability (ISO 11600)	approx. 12.5%
Mold and mildew (ASTM G21)	mold resistant
Surface burning characteristics (ASTM E84)	Flame spread: 10 Smoke development: 10
Air leakage (Modified UL 2079 L-Rating)	L-Rating at Ambient = Less than 1 CFM / Lin Ft. L-Rating at 400°F = Less than 1 CFM / Lin Ft.

Description	Package Contents	Item No.
CP 506 smoke and acoustic sealant (580 ml foil pack) ①	Case of 20 foils	00412590
CP 506 smoke and acoustic sealant (5 gallon pail) ②	1 pail	00412591

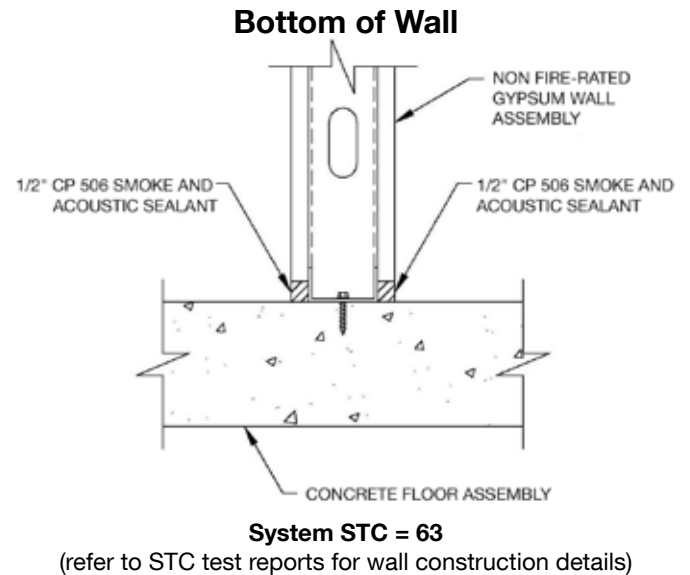
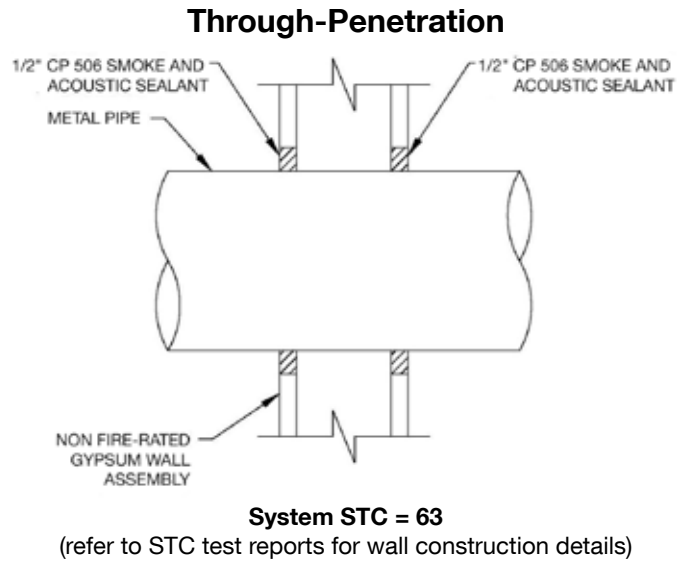
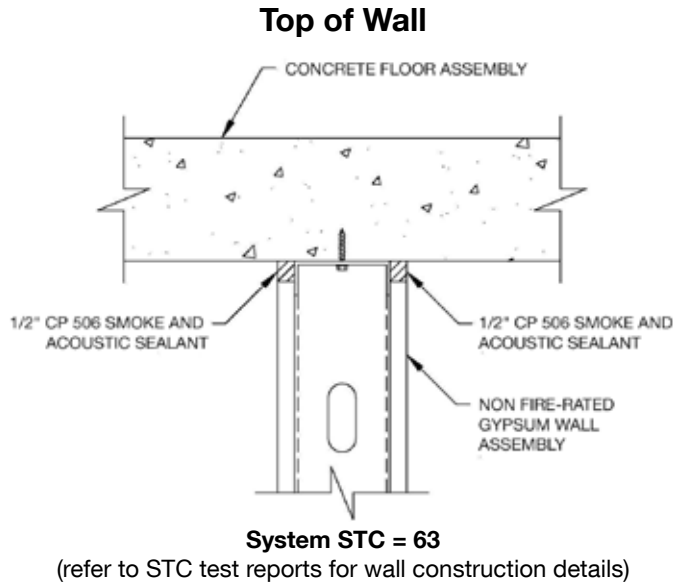


Hilti. Outperform. Outlast.

General guidelines for common acoustic seal applications

Note

- These are suggested installation guidelines for common applications
- Obtain architect and appropriate authority having jurisdiction approval for specific application of use prior to installation
- For additional details refer to specific Hilti sound transmission and air leakage test reports
- Not for use in fire-rated assemblies



Installation instructions for CP 506

Notice

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines — always refer to the product label, applicable product test reports and/or architect requirements

Opening

1. Clean the opening. Surfaces to which CP 506 will be applied should be cleaned of loose debris, dirt, oil, wax, grease, and other contaminants. The surface should be moisture and frost free.

Application of sealant

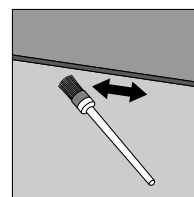
2. Apply sealant in opening at required depth
3. Smooth sealant with a trowel before the skin forms. Once cured, CP 506 can only be removed mechanically

Not for use

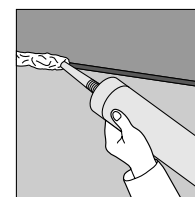
- On areas immersed in water

Storage

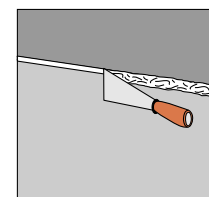
- Store only in the original packaging in a location protected from moisture at a temperature of 40°F to 77°F (5°C to 25°C)
- Observe expiration date on package



1. Clean opening



2. Apply CP 506



3. Tool CP 506

Hilti. Outperform. Outlast.



MSDS No.: 326
Revision No.: 001
Revision Date: 12/01/09
Page: 1 of 2

MATERIAL SAFETY DATA SHEET

Product name: CP 506 Smoke & Acoustic Sealant
Description: Smoke/Acoustic Sealant for Non Fire Rated Assemblies
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:
Ethylene glycol	00107-21-1	NE	NE	C: 100 mg/m ³ (A)
Titanium dioxide	13463-67-7	10 mg/m ³	15 (T) mg/m ³	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. (R) = Respirable dust (T) = Total dust (A) = Aerosol

PHYSICAL DATA

Appearance:	White paste.	Odor:	Negligible.
Boiling Point:	Not applicable.	Vapor Pressure:	Not applicable.
Melting Point:	Not determined.	VOC Content:	57.0 g/l
Evaporation Rate:	Not applicable.	Solubility in Water:	Miscible.
pH:	9.2	Specific Gravity:	1.50

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not applicable.	Flammable Limits:	Not applicable.
Fire / Explosion Hazards:	None known.		
Extinguishing Media:	As appropriate for surrounding fire.		
Special Fire Fighting Procedures:	As appropriate for surrounding fire.		

REACTIVITY DATA

Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong oxidizing agents.		
Hazardous Decomposition Products:	Thermal decomposition can yield oxides of carbon and nitrogen.		
Conditions to Avoid:	Avoid temperature extremes that could shorten the shelf life of this product. See handling and storage requirements.		

HEALTH HAZARD DATA

Known Hazards:	Acute: Product is slightly alkaline; minor irritation is possible. Chronic: None known.		
Signs and Symptoms of Exposure:	Eyes - Can cause slight irritation but injury is unlikely. Skin - Can cause irritation with some individuals. Inhalation - No effects expected. Ingestion - Not considered to be a route of exposure. Effects of ingestion have not been determined.		
Routes of Exposure:	Inhalation, Dermal.		
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.		
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.		

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush with plenty of water. Contact a Physician if symptoms occur.
Skin:	Wash with soap and water.
Inhalation:	Move victim to fresh air. Call a Physician if symptoms occur.
Ingestion:	Seek medical attention. Do not induce vomiting unless directed by a Physician. Never give anything by mouth to an unconscious person.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Safety glasses with side shields.
Skin Protection:	Impermeable gloves are recommended.
Respiratory Protection:	Not normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air supplied respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Store in a cool dry area. Keep from freezing. Shelf life is one year from date of manufacture if stored between 40° and 77° F (5 - 25° C). For industrial use only. Keep out of reach of children. Keep container sealed when not in use to prevent curing of the product. Avoid contact with the eyes and skin. Practice good hygiene; i.e. wash after using and before eating or smoking.
Spill Procedures:	Allow to cure and place in a container for proper disposal in accordance with all applicable local, state, or federal requirements. Not regulated as a hazardous waste according to federal EPA definitions.

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 (Gloves, Glasses)
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 contains approximately 3-4% ethylene glycol which is 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:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service:	1 800 879 8000	Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000	Jerry Metcalf	(x1003704)
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.