

Firestop Submittal Package

Project:

Date:

Submitted by:

This submittal is auto-generated based on user-selected inputs. Therefore, Hilti makes no representation as to the suitability of these systems for their intended use.





Hilti, Inc. (U.S.) 1-800-879-8000 **www.us.hilti.com** • en español 1-800-879-5000 • P.O. Box 21148, Tulsa, Oklahoma 74121 Hilti (Canada) Corp. 1-800-363-4458 **www.hilti.ca** • 2360 Meadowpine Blvd., Mississauga, Ontario L5N 6S2

Table Of Contents

UL Listings

HW-D-1009	1
HW-D-1045	2
	3
NW-D-0017	4
NW-D-0064	5
NW-D-0082	6

CFS-SP WB

Product Data Sheet for CFS-SP WB Firestop Joint Spray	7
UL Certificate of Compliance for CFS-SP WB Firestop Joint Spray	8
Safety Data Sheet (SDS) for CFS-SP WB Firestop Joint Spray	9
LEED Information for CFS-SP WB Firestop Joint Spray	14

CP 606

Product Data Sheet for CP 606 Flexible Firestop Sealant	15
UL Certificate of Compliance for CP 606 Flexible Firestop Sealant	
Safety Data Sheet (SDS) for CP 606 Flexible Firestop Sealant	
CP 767	
Product Data Sheet for CP 767 and CP 777 Speed Plugs	
UL Certificate of Compliance for CP 767 and CP 777 Speed Plugs	25
Safety Data Sheet (SDS) for CP 767 Speed Strips	
LEED Information for CP 767 Speed Strips and CP 777 Speed Plugs	

Mineral wool

Product Data Sheet for Mineral Wool	. 32
UL Certificate of Compliance for Mineral Wool	34
LEED Information for Mineral Wool	. 35



2. Wall Assembly — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. Joint System — Max separation between bottom of floor and top of wall (at time of installation of joint system) is 3-3/4 in. The joint system is designed to accommodate a max 7 percent in compression or extension from its installed width. The joint system shall consist of the following: A. Forming Material — Min 4 pcf mineral wool batt insulation installed in joint opening as a permanent form. Pieces of batt cut to min width of 4 in. and installed edge-first into joint opening, parallel with joint direction, such that batt sections are compressed min 42 percent in thickness and that the compressed batt sections are recessed from both surfaces of the wall as required to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly-butted with butted seams spaced min 24 in. apart along the length of the joint.

FIBREX INSULATIONS INC - FBX Safing Insulation

B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. thickness of fill material applied within the joint, flush with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC — CP606 Flexible Firestop Sealant

*Bearing the UL Classification Mark



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 15, 2009 HWD 1009



Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 07, 2010





Hilti Firestop Systems

June 07, 2010

VWD 001





Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. May 18, 2009



Firestop Joint Spray (CFS-SP WB)

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 and III Approval) (ASTM E 1966 and UL 2079)
- Quick and easy installation with the Titan 600 or 1100 Sprayers can help save you time and money
- Contains no halogens, solvents or asbestos
- Water based formulation so spills and over-spray clean up quickly and easily
- Paintable
- Meets LEEDTM 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



Technical Data*	CFS-SP WB
Density	Approx. 10.8 lb/gal (1.3 g/cm ³)
Color	Available in red, white and gray**
Application temperature	39°F to 104°F (4°C to 40°C)
Temperature resistance	-40°F to 176°F (-40°C to 80°C)
Consistency	Sprayable liquid
Chemical basis	Acrylic-water-based-dispersion
Curing time	Approx. 24 hours @ 73°F, 50% humidity for 1/8" depth
Average volume shrinkage (ASTM C1241)	51.1%
Ph-value	Approx. 8-9
Movement capability	Up to 50%
Surface burning characteristics (CAN/ULC-S102)	Flame spread: 15 Smoke development: 10
Sound transmission classification (ASTM E 90-99)	59 (per tested construction type)
Tested in accordance with • UL 2079 • ASTM E 1966 • ASTM E 84 • ASTM E 2837 • UL 1479 • ASTM E 814 • ASTM E 2307	

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

**Gray color requires six (6) weeks lead time





Installation instructions for Firestop Joint Spray CFS-SP WB

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

 Clean the opening. Surfaces to which Firestop Joint Spray 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 Joint Spray

- Mineral wool packing: Install the prescribed back filling material type and depth to obtain desired rating.
- 3. Application of Firestop Joint Spray: Apply Firestop Joint Spray to the required depth in order to obtain the desired rating. Make sure Firestop Joint Spray contacts all surfaces and overlaps beyond all surrounding surfaces (Refer to UL System). Titan Sprayers have been successful in applying Firestop Joint Spray. Hilti recommends the use of the Titan 600 (for application temperatures above 50°F) or



Firestop Joint Spray may also be brushed on with a paint brush. Contact Hilti Technical Support for more information.

- Curing time: Allow approx. 24 hours for typical application thickness (@ 73°F / 23°C) 50% humidity for 1/8" depth for the Firestop Joint Spray to fully cure.
- Identification: For maintenance reasons all Firestop Joint Spray applications can be permanently marked with an identification plate and fastened in a visible position next to the seal.

Not for use

- In areas immersed in water
- On hot surfaces (above 176°F)

Storage

- Store only in the original packaging at temperatures 39°F to 77°F (4°C to 25°C)
- Observe expiration date on package

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CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20170203 - R13240 R13240 - 20100527 2017-FEBRUARY-03

Fill, Void or Cavity Materials

CFS-SP WB Firestop Joint Spray

Issued to: HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC 7250 Dallas Pky, Legacy Tower Suite 1000 Plano, TX 75024 USA

This is to certify that representative samples of

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:ANSI/UL 1479, "Fire Tests of Penetration Firestops,"
ANSI/UL 2079, "Tests for Fire Resistance of Building Joint
Systems," ANSI/ASTM E2307, "Standard Test Method for
Determining Fire Resistance of Perimeter Fire Barriers
Using Intermediate-Scale, Multi-story Test Apparatus" and
CAN/ULC-S115, "Standard Method of Fire Tests of Firestop
Systems."Additional Information:See the UL Online Certifications Directory at

www.ul.com/database for additional information

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

Look for the UL Certification Mark on the product.

6 mill

Bruce Mahrenholz, Director North American Certification Program



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutu/locations/



Safety Data Sheet acc. to ISO 11014

Version number 4

Page 1/5

Reviewed on 03/06/2015

1 Identification

· Product identifier

- · Trade name:
- CP 672
- Hilti Firestop Joint Spray CFS-SP WB
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Construction chemicals
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Hilti, Inc. 5400 South 122nd East Ave. US-Tulsa, OK 74146 Phone: (800) 879-8000 Fax: (800) 879-7000 Español: (800) 879-5000
- · Information department: chemicals.hse@hilti.com see section 16
- Emergency telephone number: Tox Info Suisse - 24 h Service Tel.: 0041 / 44 251 51 51 (international)

Chem-Trec Tel.: 1 800 424 9300

2 Hazard(s) identification

· Classification of the substance or mixture

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable
- **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:

Zinc borate [Zn4B12O22*7H20]

- · Hazard statements
- H361 Suspected of damaging fertility or the unborn child.
- **Precautionary statements**
- Wear protective gloves/protective clothing/eye protection/face protection. P280
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- · Classification system
- · NFPA ratings (scale 0-4)





- · Other hazards · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients	
Chemical characterization: Mixtures Description: Watery, intumescent fire prevention coating	
· Dangerous components:	
138265-88-0 Zinc borate [Zn4B12O22*7H20]	Xn R63; N R50/53-51 <2.5% Repr. Cat. 3
· · ·	(Contd. on page 2)

US

Version number 4

Reviewed on 03/06/2015

· Additional information For the wording of the listed risk phrases refer to section 16.

(Contd. of page 1)

4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- \cdot After inhalation Take affected persons into fresh air and keep quiet.
- · After skin contact Immediately wash with water and soap and rinse thoroughly. · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Seek immediate medical advice.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Carbon monoxide (CO)
- Carbondioxide (CO2)
- · Advice for firefighters
- · Protective equipment: Ensure adequate ventilation

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective clothing.

- Particular danger of slipping on leaked/spilled product.
- · Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up:
- Pick up mechanically.
- Dispose contaminated material as waste according to item 13.
- · Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: keep containers securely closed and dry, store at 5 25 °C / 41 77 °F
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from frost.
- · Storage class 12
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- Control parameters
- · Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures
- The usual precautionary measures for handling chemicals should be followed.
- Avoid contact with the eyes and skin.
- Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Not necessary if room is well-ventilated.

(Contd. on page 3) US



Safety Data Sheet acc. to ISO 11014 Version number 4

Reviewed on 03/06/2015

(Cond. of page 2)

Protection of hands:

Cond. of page 2)

Protective gloves.

FN 374
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Auterial of gloves Nitrile rubber, NBR
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
FN 166 + EN 170
FN 166 + EN 170
FOR The true work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance: Form:	Fluid
Color:	Various colors
· Odor:	Characteristic
 Change in condition Melting point/Melting range Boiling point/Boiling range: 	: Not determined. undetermined
· Flash point:	Not applicable
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined
Solubility in / Miscibility with Water: Other information	Not miscible or difficult to mix VOC Content: 34 g/l (EPA Method 24)

10 Stability and reactivity

· Reactivity

- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

(Contd. on page 4)



Safety Data Sheet acc. to ISO 11014

Version number 4

Reviewed on 03/06/2015

(Contd. of page 3)

· NTP (National Toxicology Program)

None of the ingredients is listed

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available. · Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
- Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · European waste catalogue:
- 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
- · Uncleaned packagings:
- **Recommendation:**
- Disposal must be made according to official regulations.
- Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPO the IBC Code	L73/78 and Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara Section 355 (Extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): None of the ingredients are listed. · TSCA (Toxic Substances Control Act): All ingredients are listed. (Contd. on page 5)

US



Safety Data Sheet acc. to ISO 11014 Version number 4

Reviewed on 03/06/2015

(Contd. of page 4)

•	Proposition	65:

1 Toposition 05.
Chemicals known to cause cancer:
28553-12-0 di-"isononyl" phthalate
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51 Toxic to aquatic organisms. Possible risk of harm to the unborn child R63

· Department issuing SDS: Hilti Corporation

Business Unit Chemicals Quality/Safety/Environment FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com Tel.: +423 234 3004 FAX.: +423 234 3462

 \cdot Date of preparation / last revision 05/18/2015 / 3· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

Repr. 2: Reproductive toxicity, Hazard Category 2 • * Data compared to the previous version altered.



August 26, 2015

To Whom It May Concern:

Re: Hilti CFS-SP WB Firestop Joint Spray – LEED Information

Item Numbers:

430792	
430793	
430802	

The Hilti CFS-SP WB Firestop Joint Spray is manufactured in Florida.

The CP 572 pail is made of polyethylene and can be completely recycled.

There is no post-consumer or post-industrial content in CFS-SP WB Firestop Joint Spray and it cannot be recycled. The CFS-SP WB does not contain any Rapidly Renewable Materials.

The VOC content for CFS-SP WB Firestop Joint Spray is 34 g/l.

CFS-SP WB Firestop Joint Spray is not regulated as 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) 872-3704 if you have questions.

Sincerely,

Jey Metall

Jerry Metcalf MPH, CHMM Sr. Manager, Safety/Environmental Hilti Inc. 918 872 3704 jerry.metcalf@hilti.com

Rev. Date: 8/14/15

The manufacturing plant location on this certificate has been provided for LEEDS reporting purposes only. It should never be used for Country of Origin certification or a representation of compliance/non-compliance with Buy American or Buy America requirements, as those requirements differ.

The manufacturing plant location(s) identified on the certificate represent standard Hilti catalog products only. "Specially" produced non-catalog Hilti products may have differing manufacturing plant locations.

Contact your Hilti representative in cases of "specially" produced products for a custom LEEDS certificates.

Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74146

> 1-800-879-8000 www.hilti.com

Acrylic based firestop sealant

Flexible Firestop Sealant (CP 606)

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
- Tested up to 33% movement with 500 cycles in accordance to UL 2079 and ASTM 1966
- 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



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
- The use of backing material is recommended to control the sealant depth and help ensure assembly seal is complete

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







1. Clean opening 2. Insert backing material

Chemical basis







4. Smooth CP 606

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plate (if required)

oacking compressed ystem	3. Apply CP 606

3. Apply CP 606









15



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
Average volume shrinkage (ASTM C1241)		22.2%
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)
Tested in accord • UL 2079 • ASTM E 84	lance with • ASTM E 814 • UL 1479	• ASTM E 1966 • ASTM G21
*At 73°F (23°C) and 5	0% relative humidity	

FILL, VOID OR CAVITY MATERIAL FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS AND JOINT SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 66Y7

Storage

77°F (5°C to 25°C)



Store only in the original packaging in a location

protected from moisture at a temperature of 40°F to

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date

20160930-R13240 R13240 2016-September-30

Hilti Construction Chemicals, Div of Hilti Inc. Issued to: 5400 S 122nd East Ave Tulsa, OK 74146

This is to certify that representative samples of

Fill, Void or Cavity Materials Fill, Void or Cavity Materials Certified for Canada

> CP 606 Sealant for use in Through-Penetration Firestop, Joint in wall and partition Systems as currently decribed in the UL Fire Resistance Directory and in the Products Certified for Canada Directory.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:	ANSI/UL 1479, "Fire Tests of Through-Penetration Firestops."
	ANSI/UL 2079, "Tests for Fire Resistance of Building Joint Systems,"
	CAN/ULC-S115, "Standard Method of Fire Tests of Firestop Systems."
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

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

Look for the UL Certification Mark on the product.

orth American Certification Program Bruce UL LLC



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized contact a local UL Customer Service Represe

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/07/2016 Revision date: 01/07/2016 Supersedes: 01/07/2016

Version: 4.2

SECTION 1: Identification

1.1. Identification

Product form Name Product code Chemical structure Mixture

Hilti Firestop Acrylic Sealant CFS-S ACR; CP 606 BU Chemicals



1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hilti, Inc. Legacy Tower, Suite 1000 75024 Plano - USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522

Supplier

Hilti, Inc. Legacy Tower, Suite 1000 75024 Plano - USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522

1.4. Emergency telephone number

Emergency number

Department issuing data specification sheet Hilti AG Feldkircherstraße 100 9494 Schaan - Liechtenstein T +423 234 2111 chemicals.hse@hilti.com

Chem-Trec Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada) Tel.: 703 527 3887 (Other countries) +1 918 8723000 1-800-879-8000 toll free

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

07/01/2016

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECT	FION 2: Composition/informa	tion on ingradiants
JEC	TION 3: Composition/informa	tion on ingredients
3.1.	Substance	
Not app	blicable	
3.2.	Mixture	
Full tex	t of H-statements: see section 16	
SECT	FION 4: First aid measures	
4.1. De	escription of first aid measures	
First-aid	d measures after inhalation	Get medical advice/attention if you feel unwell.
First-aid	d measures after skin contact	Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid	d measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid	d measures after ingestion	Get medical advice/attention if you feel unwell.
4.2. M	ost important symptoms and effect	s, both acute and delayed
No add	itional information available	
4.3. In	dication of any immediate medical	attention and special treatment needed
No add	itional information available	
SECT	CION 5: Eirofighting measured	
5.1. Ex	ktinguishing media	
Suitable	e extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Sp	pecial hazards arising from the sub	stance or mixture
Reactiv	ity	The product is non-reactive under normal conditions of use, storage and transport.
5.3. A	dvice for firefighters	
Protecti	ion during firefighting	Self-contained breathing apparatus. Complete protective clothing.
SEC	ION 6: Accidental release m	easures
6.1. Pe	ersonal precautions, protective equ	ipment and emergency procedures
6.1.1. F No add	for non-emergency personnel itional information available	
6.1.2. F	For emergency responders	For further information refer to section 8: "Exposure controls/personal protection"
TIOLOGI		
6.2. Er	nvironmental precautions	
No add	itional information available	
6.3. M	ethods and material for containmer	nt and cleaning up
Method	s for cleaning up	Recover mechanically the product.
6.4. Re	eference to other sections	
For furt	her information refer to section 13.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Wear personal protective equipment.
Hygiene measures	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Storage conditions	Keep cool. Store in a dry place.
Storage temperature	41 - 77 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment

Hand protection Eye protection Skin and body protection Protective clothing. Safety glasses. Gloves.



Protective gloves. EN 374. Safety glasses. EN 166. EN 170. Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Pasty.
Colour	red white Grey
Odour	characteristic
Odour threshold	Not determined
pH	≈ 9 Not applicable
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable
Relative evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Explosive properties	No data available
Oxidising properties	No data available
Vapour pressure	No data available
Relative density	No data available
Relative vapour density at 20 °C	No data available
Density	1.6 g/cm ³
Molecular mass	Not determined
Solubility	No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Log Pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	pH: ≈ 9 Not applicable Not classified pH: ≈ 9 Not applicable
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity Carcinogenicity	Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	Not classified Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological informatio	on and a second s
12.1. Toxicity	
Ecology - general	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on the global warming	No known ecological damage caused by this product.
SECTION 13: Disposal consideration	ons

13.1. Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable
Proper Shipping Name (ADN)	Not applicable
Proper Shipping Name (RID)	Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	Not applicable
IMDG	
Transport hazard class(es) (IMDG)	Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	Not applicable
ADN	
Transport hazard class(es) (ADN)	Not applicable
RID	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transport hazard class(es) (RID)	Not applicable
14.4. Packing group	
Packing group (ADR)	Not applicable
Packing group (IMDG)	Not applicable
Packing group (IATA)	Not applicable
Packing group (ADN)	Not applicable
Packing group (RID)	Not applicable
14.5. Environmental hazards	
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available
14.6. Special precautions for user	
- Overland transport	
- Transport by sea	
No data available	
- Air transport	
No data available	
- Inland waterway transport	
Carriage prohibited (ADN)	No
Not subject to ADN	No
- Rail transport	
Carriage prohibited (RID)	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. US Federal regulations

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA		
Hilti Firestop Acrylic Sealant CFS-S ACR; CP 606		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

National regulations

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information	
Revision date	01/07/2016
HMIS III Rating	
Health	0 Minimal Hazard - No significant risk to health
Flammability	0 Minimal Hazard - Materials that will not burn
Physical	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal Protection	В
	B - Safety glasses, Gloves

SDS_US_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



Speed Strips (CP 767)



Product description

- CP 777: Pre-formed mineral wool plugs for 1.5", 2" and 3" decks
- CP 767: Pre-formed mineral wool strips suitable for joint applications

Product features

- Pre-cut to industry standard size decking flutes
- Reduces material waste
- 3 sizes available
- Pre-cut leaves no gaps or voids
- Smooth surface provides cost effective spray coverage
- Safe to use no asbestos/inorganic, will not mildew
- Up to 60% faster than castle cutting!

Areas of application

Top-of-wall

Tested and approved

UL Classified when used in conjunction with CP 606 Flexible Firestop Sealant, CP 601S Elastomeric Firestop Sealant, CP 672 Speed Spray, or CFS-SP WB Firestop Joint Spray



CP 767 and CP 777

Tested in accordance with

Technical Data

- UL 2079 • ASTM E 1966
- ASTM C G12 Type I-IUB





60% Faster than castle cutting

43% Faster than conventional mineral wool

*Based upon 40 linear feet of installation. Actual results may vary.

Installation instructions for CP 777

Notice

 Before handling, read Material Safety Data Sheet and product label for safe usage and health information.



Easy one step installation — simply cut to length and install.

 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



Full coverage pre-cut flute configuration leaves no gaps or voids.



Superior finish smooth surface allows quick and cost effective coverage with Hilti CFS-SP WB Firestop Joint Spray.



Easy to utilize — Speed Strips in joints between wall substrate and bottom of deck. Compress per UL System.



Hilti. Outperform. Outlast.

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20160829-R13081 R13081 2016-August-29

Issued to: Hilti Construction Chemicals, Div of Hilti Inc. 7250 Dallas Pky, Legacy Tower Ste 1000 Plano, TX 75024 USA

This is to certify that representative samples of

Forming Materials Forming Materials Certified for Canada

CP767 Speed Strips and CP777 Speed Plugs Speed Strips for use in Joint Systems as currently decribed in the UL Fire Resistance Directory and in the Products Certified for Canada Directory.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:	ANSI/UL 1479, "Fire Tests of Through-Penetration Firestops "
	CAN/ULC-S115, "Standard Method of Fire Tests of Firestop Systems."
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

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

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/



Safety Data Sheet acc. to ISO 11014

Version number 1

1 Identification

· Product identifier

- · Trade name: Hilti Firestop Coated Board CFS-CT B Hilti Firestop Coated Board CP 670 Hilti Firestop Coated Board CP 673
 - Hilti Firestop Coated Board CP 676 Hilti Firestop Cord CFS-CO
 - Hilti Firestop Sleeve CP 645 Hilti Speed Strip CP 767
 - Hilti Speed Plug CP 777
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Construction chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Hilti, Inc.

5400 South 122nd East Ave. US-Tulsa, OK 74146 Phone: (800) 879-8000 Fax: (800) 879-7000 Español: (800) 879-5000

· Information department:

chemicals.hse@hilti.com

see section 16

Emergency telephone number: Tox Info Suisse - 24 h Service Tel.: 0041 / 44 251 51 51 (international)

Chem-Trec Tel.: 1 800 424 9300

2 Hazard(s) identification

· Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system
- · NFPA ratings (scale 0-4)



Health = 0Fire = 0Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mineral wool plate with coating Article made from mineral wool and fibre glass

· Dangerous components: Void

4 First-aid measures

- · Description of first aid measures
- \cdot General information No special measures required.
- · After inhalation Supply fresh air.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Seek immediate medical advice.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 2)



Safety Data Sheet acc. to ISO 11014

Version number 1

Reviewed on 05/19/2015

(Contd. of page 1)

Page 2/5

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.
- Wear protective clothing.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling
- \cdot $\ensuremath{\textbf{Precautions}}$ for safe handling <code>Prevent</code> formation of dust.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in dry conditions.
- · Storage class 11
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

287922-11-6 HT stone wool (90%)

AGW(Germany) 3*; 10** mg/m3

*inhalable (long term); **respirable (short term)

- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures
- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Do not inhale dust / smoke / mist.
- Breathing equipment: If dust is produced.
- · Protection of hands:



Protective gloves.

- · Material of gloves Strong gloves
- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles.

(Contd. on page 3)



Safety Data Sheet acc. to ISO 11014 Version number 1

Reviewed on 05/19/2015

(Contd. of page 2)

· Body protection:



Protective work clothing.

9 Physical and chemical properties		
· Information on basic physical and chemical properties · General Information		
· Appearance:		
Form:	Solid material.	
Color:	Green	
· Odor:	Odorless	
· pH-value:	Not applicable	
 Change in condition Melting point/Melting rang Boiling point/Boiling range 	e: > 1000 °C (> 1832 °F) : undetermined	
· Flash point:	Not applicable	
· Ignition temperature:	Not applicable	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Density at 20 °C (68 °F):	100-250 g/cm ³ (834.5-086.25 lbs/gal)	
 Solubility in / Miscibility with Water: 	Insoluble	
· Solvent content:		
Solids content: • Other information	100.0 % No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \cdot Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- · IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- · NTP (National Toxicology Program)
- None of the ingredients is listed
- · OSHA-Ca (Occupational Safety & Health Administration)
- None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- \cdot Persistence and degradability No further relevant information available.

(Contd. on page 4)

²⁸



Safety Data Sheet acc. to ISO 11014

Version number 1

(Contd. of page 3)

 \cdot Behavior in environmental systems:

- \cdot Bioaccumulative potential No further relevant information available.
- \cdot Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- · Additional ecological information:
- General notes: Generally not hazardous for water.
 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation For disposal, local regulations issued by the authorities must be observed.

· European waste catalogue:

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

Empty packs: May be disposed via the local Green Dot collecting system or EAK waste material code 150102 (plastic packaging materials)

14 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADN, IMDG, IATA · ADR	Void Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL73/7 the IBC Code	78 and Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

15 Regulatory information

\cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
Section 355 (Extremely hazardous substances):
None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65:
Chemicals known to cause cancer:
None of the ingredients are listed.
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
(Contd. on page 5)

US



Safety Data Sheet acc. to ISO 11014 Version number 1

Reviewed on 05/19/2015

(Contd. of page 4)

None of the ingredients is listed.

· National regulations

· Information about limitation of use: None

· NIOSH-Ca (National Institute for Occupational Safety and Health)

 \cdot Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Hilti Corporation Business Unit Chemicals

Quality/Safety/Environment FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com Tel.: +423 234 3004 FAX .: +423 234 3462

· Date of preparation / last revision 05/19/2015 / -

Abbreviations and acronyms:
 Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation

IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

* * Data compared to the previous version altered.



January 27, 2016

To Whom It May Concern:

Re: Hilti CP767 Speed Strips and CP777 Speed Plugs – LEED Information

Item Numbers:

CP 767	CP 777
374505	340998
374506	340999
374507	371925
374508	

The Hilti CP767 Speed Strips and CP777 Speed Plugs are manufactured in North Carolina.

Post-consumer recycled content of Hilti CP767 Speed Strips and CP777 Speed Plugs is 0%. Pre-consumer recycled content of Hilti CP767 Speed Strips and CP777 Speed Plugs is 0%. There is no detectable VOC content either product.

Hilti CP767 Speed Strips and CP777 Speed Plugs are 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) 872-3704 if you have questions.

Sincerely,

Jey Metcall

Jerry Metcalf MPH, CHMM Sr. Manager, Safety/Environmental Hilti Inc. 918 872 3704 jerry.metcalf@hilti.com

Rev. Date: 1/27/16

The manufacturing plant location on this certificate has been provided for LEEDS reporting purposes only. It should never be used for Country of Origin certification or a representation of compliance/non-compliance with Buy American or Buy America requirements, as those requirements differ.

The manufacturing plant location(s) identified on the certificate represent standard Hilti catalog products only. "Specially" produced non-catalog Hilti products may have differing manufacturing plant locations.

Contact your Hilti representative in cases of "specially" produced products for a custom LEEDS certificates.

Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74146

> 1-800-879-8000 www.hilti.com

Fire Containment Insulation Thermafiber[®] Safing[™]

- + Exceptional performance in Perimeter Fire Containment Systems
- + Provides life saving fire protection in rated assemblies
- + Fire resistant to temperatures above 2,000°F (1,093°C)
- + Easy to fabricate for through penetrations and firestopping
- + Conserves energy, reduces greenhouse gas emissions
- + Resists moisture
- + Controls noise and sound

LEED [®] v2009 Green Building Credits				
Minimum	Energy & Atmosphere	Materials & Resources	Indoor Environmental Quality	Innovation in Design
/ U /0 Recycled Content ¹	1	2.1, 2.2 4.1, 4.2 5.1, 5.2	9	1





Thermafiber[®] Safing[™] is compression fitted between FireSpan[®] insulation and the concrete slab edge to create a perimeter fire containment system.

	Thermafibe	er [®] Saf	ing™	^M Insula	ation					
Description:	THERMAFIBER Safing™ systems, floor and wall p noncombustible, moistur provides thermal insulatic fire containment assemble	products are c enetrations, cc e-resistant, no on, fire protecti ies of 1, 2, and	lesigned t onstructior ncorrosive on, and a d 3-hr ratii	o provide life san pioints, and othe piondeterioratii coustical control ngs.	ving fire protection er firestopping app ng, mildew-proof a in many different l	in per licatio Ind ve JL and	imeter ns. The rmin-pr d Interte	fire conta ese produ oof. Ther ek (forme	inment cts are mafiber 1y OPL	Safing) listed
Product Options:	 Safing 4.0 pcf, 2" or greater thickness, is available with or without a vapor retarding foil facing. Safing 6.0 pcf, 1.5" or greater thickness, is available with or without a vapor retarding foil facing. Recycled Content Options¹: EPA Choice Fiber (US Government Buildings) Minimum 75% Standard Fiber									
Installation:	 All firestopping insulation compressed Safing insula Perimeter Installation: curtain wall insulation, Penetration Applicatio opening, leaving no vo Construction Joint Application 	should be inst ation should be Safing™ insula leaving no voi n: Safing insula pids. plication: Safir	alled per t e installed ation shou ds. ation shou ng insulatio	the architectural per the listed as Id be compressi Id be cut slight <u>h</u> on should be co	specification or sy sembly. on fitted between / larger than the op mpression fitted in	stem : the sla bening to the	specific ab edge 1 and co joint op	e test desc e and the compression pening, lea	cription FireSpa on fittec aving ne	. All an I into the o voids.
Standard Sizes:		Thick	ness*	Width	IS**	L	ength	IS**]	
	Safing 4.0 pcf	1".	- 7"	16", 24"	, 36"	4	48", 60)"	1	
	Safing 6.0 pcf	1".	- 7"	16", 24"	, 36"	Z	48", 60)"		
	Tolerances	+1/4"	- 1/8"	±1/8	53		±1/2"			
	*Thicknesses are available	e in 1/2" increment	ts. **Custor	n sizes are availab	le upon request.					
Technical Data:				Tostod to A	STM C 519		Tes	sted to A	STM	E 84
	Due du et	Astual			(D" value re		UIII	aceu	FOILI	aceu
	Designation	Density	BTU.ir	1/hr.sq. ft. °F	inch of thickne	r ss***	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
	Safing	4.0 pcf		0.24	'R'= 4.2		0	0	25	0
	Safing	6.0 pcf		0.24	'R'= 4.2		0	0	25	0
	***R = thickness divided by	' 'k'					-	_	_	
	containment systems visi Aluminum Spandrel Cu Steel Stud-Framed/Gy Glass Spandrel Curtain Granite Spandrel Curta Precast Concrete Spa	t www.thermafi urtain Wall Fire rpsum Sheath n Wall Fire Co ain Wall Fire C ndrel	ber.com a Contain ing Curtai ntainmen containme	and click on Fire ment in Wall Fire Con t ant	Rated Assemblies. tainment	UL Re	eference	ə = TYPE	SAF	s s s s s s s s s s s s s s s s s s s
Standards Compliance:	Safing [™] Insulation meets ASTM C 665 ASTM C 612 ASTM E 136 CAN/ULC S114 ASTM E 96 ASTM C 1104 CAN/ULC S102 ASTM E 814 or UL 1475 UL 2079 CAN/ULC S115 Safing products are approv MEA-209-82-M, Vol. 4).	the following: Non-cc Type IA Rated I Compli Unface Foil Fau Absorb Flame 9 Safing I sealant Safing in cons Compli ed by: New Yor	orrosive, 7 A, IB, II Non-com es d, 50 Per ced, 0.02 is less tha Spread 0, nsulation or other a Insulation itruction j es k City Boa	Type I, III bustible per NF ms as tested Perms as tested an 1% by volun Smoke Develo used in conjunc approved materi n used in conjun oint systems - ard of Standards	PA Standard 220 ed ped 0 stion with an appro al in through – per nction with an ap Complies & Appeals – (under	oved f ietratio prove BSA 3	ill, void on fires d fill, v 9-74-SN	, or cavit top syste oid or ca 1 & accept	y mater ms - Co vity ma red by	ial omplies aterial
Thermafiber [®] Insolutions [®] :	Thermafiber offers indust These services include C and customized products 1-888-834-2371, or ema	ry leading tech AD drawings, s. Contact our il technicalse	nical and engineerir technical rvice@ov	engineering ass ng judgments, Ll I services depart wenscorning.c	istance to architec EED® Credit Inforr ment at om	ts, spe nation	ecifiers, , produ	and con ict recom	tractors mendat	tions,
For Further Information:	For additional information website www.thermafibe	about these or.com.	or other Th	nermafiber produ	ucts contact us at	1-888	-834-2	371 or vis	sit our	
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Submittal Approvals:	Job Name									
	Contractor						Date			
COMENS I hermatiber	3711 Mill Street Wal	bash, IN 469	92 888	-TFIBER1 [83	4-2371] [260] {	563-2	2111	www.th	ermafil	ber.com



Northbrook Division 333 Pfingsten Road Northbrook, IL 60062-2096 USA www.ul.com tel: 1 847 272 8800

CERTIFICATE OF COMPLIANCE

	CERTIFICATE NUMBER:	20040809-R10905	
	ISSUE DATE:	August 9, 2004	Page 1 of 1
Issued to:	Thermafiber Inc. 3711 W Mill St Ext Wabash, IN 46992		
Report Reference:	R10905		
This is to Certify that representative samples of:	Forning Material, designated as T	ype SAF mineral wool batts.	

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

Standard(s) for Safety:	ANSI/UL 1479, Fire Tests of Through-Penetration Firestops. ANSI/UL 2079,
	Test for Fires Resistance of Building Joint Systems. ASTM E2307-04, Standard
	Test Method for Determining Fire Resistance of Perimeter Fire Barrier Systems
	Using Intermediae-Scale, Multi-story Test Apparatus

Additional Information: Type SAF mineral wool batts for use as a forming material for use in various Through-Penetration FireStop Systems, Joint Systems and Perimeter Fire Barrier Systems as Specified in UL's Fire Resistance Directory Volume 2.

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

The UL Classification Marking 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 MARKING ON THE PRODUCT

Engineer:

Mona Couloute Mona Couloute_ Underwriters Laboratories Inc.

Review Engineer: Chris Johnson Underwriters Laboratories Inc.





September 24, 2015

To Whom It May Concern:

Re: Hilti Mineral Wool-LEED Information

Item Number:

236993

The Hilti Mineral Wool is manufactured in Wabash, Indiana.

The post-consumer recycled content in the Hilti Mineral Wool is 0%. The pre-consumer recycled content in the Hilti Mineral Wool is 90%. There is no detectable VOC content in this product.

Hilti Mineral Wool is not regulated as a hazardous waste by the Federal EPA Standards. The regulations for the disposal of nonregulated 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) 872-3704 if you have questions.

Sincerely,

er Metcall

Jerry Metcalf MPH, CHMM Sr. Manager, Safety/Environmental Hilti Inc. 918 872 3704 jerry.metcalf@hilti.com

Rev. Date: 9/24/15

The manufacturing plant location on this certificate has been provided for LEEDS reporting purposes only. It should never be used for Country of Origin certification or a representation of compliance/non-compliance with Buy American or Buy America requirements, as those requirements differ.

The manufacturing plant location(s) identified on the certificate represent standard Hilti catalog products only. "Specially" produced non-catalog Hilti products may have differing manufacturing plant locations.

Contact your Hilti representative in cases of "specially" produced products for a custom LEEDS certificates.

Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74146

> 1-800-879-8000 www.hilti.com