

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

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System No. C-AJ-8056

- CAJ 8056
- 4. Through-Penetrants One or more pipe, conduit or tube to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The space between pipes, conduits or tubing and between the periphery of the opening and the pipes or conduits shall be min 1 in. (25 mm) to max 4-1/2 in. (114 mm). Pipe, conduit or tube to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. Nom 6 in. (152 mm) diam (or smaller) rigid galv steel conduit.
 - B. Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
 - C. Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - D. Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
 - E. Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - F. Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
- 5. Pipe Covering Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
- See Pipe and Equipment Covering and Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 may be used.
- 6. Cables Max 2 in. (51 mm) diam tight bundle of cables centered in opening and rigidly supported on both surfaces of floor and wall. Any combination of the following types and sizes of cables may be used:
 - A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.
 - B. 25 pair No. 24 AWG cable with PVC insulation and jacket.
 - C. 2/C No. 10 AWG with PVC insulation and jacket.
 - D. 3/C No. 8 AWG aluminum clad cable with cross-linked polyethylene (XLPE) insulation and PVC jacket.
 - E. Type RC 62 A/U coaxial cable with air core and PVC jacket.
 - F. 24 fiber optic cable with PVC sub unit and outer jacket.
- 7. Firestop System The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* Fire blocks installed with long dimension passed through the opening and centered within the thickness of the floor or wall. Blocks to be firmly packed and completely fill the entire area and thickness of opening. Either one or a combination of the block types specified below may be used.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS 657 -Fire Block or CFS-BL Firestop Block
 - B. Fill, Void or Cavity Material* (Not Shown) Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-One Sealant, FS-ONE MAX Intumescent Sealant, or CP618 Firestop Putty Stick (L Rating applies only when FS-One Sealant is used.)
 - C. Wire Mesh (Not Shown) When the annular space exceeds 4-1/2 in. (114 mm) to the periphery, a nom 2 in. sq (51 mm sq.) wire fencing shall be used to keep the fire blocks in place. The wire fencing is fabricated from min No. 16 SWG (0.060 in.) (1.52 mm) galv steel wire. The wire is cut to fit the contour of the penetrating item with a min 3 in. (76 mm) lap beyond the periphery of the opening. Wire fencing secured to top surface of floor and both surfaces of wall assembly by means of 1/4 in. (6 mm) diam by 1 in. (25 mm) long concrete anchors and 1/4 in. (6 mm) by 1-1/2 in. (38 mm) diam fender washers spaced max 8 in. (203 mm) OC.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- 1. Wall Assembly Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Maximum area of opening 1152 in2 (7432 cm2) with maximum dimension of 48 in. (1219 mm).
- 2. Metallic Penetrants One or more metal pipes, conduits or tubing may be installed within the through opening. The space between pipes, conduits or tubing shall be min 1 in. (25 mm) to max 26 in. (660 mm). The space between pipes, conduits or tubing and periphery of opening shall be min 0 in. (point contact) to max 26 in. (660 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. Steel Pipe Nom 6 in. (152 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - B. Iron Pipe Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
 - C. Conduit Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT) or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
 - D. Copper Pipe or Tube Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe or Type L (or heavier) copper tube.



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- 3. Non-Metallic Penetrants One or more non-metallic penetrants may be installed within the through opening. Penetrants to be rigidly supported on both sides of wall assembly. The following types and sizes of non-metallic penetrants may be used:
 - A. Polyvinyl Chloride (CPVC) Pipe Max 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply). The space between pipes or conduits shall be min 1-1/2 in. (38 mm) to max 26 in. (660 mm). The space between pipes or conduits and periphery of opening shall be min 1-1/2 in. (38 mm) to max 26 in. (660 mm).
 - B. Rigid Nonmetallic Conduit (RNC)+ Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70). The space between pipes or conduits shall be min 1-1/2 in. (38 mm) to max 26 in. (660 mm). The space between pipes or conduits and periphery of opening shall be min 1-1/2 in. (38 mm) to max 26 in. (660 mm).
 - C. Optical Fiber/Communication Cable Raceways+ Nom 2 in. (51 mm) diam (or smaller) optical fiber raceway, formed from polyvinyl chloride (PVC). Raceway to be installed in accordance with the National Electrical Code (NFPA No. 70). The annular space between the raceway and the periphery of the opening shall be minimum 2 in. (51 mm) to max 26 in. (660 mm). The minimum space between adjacent penetrants shall be 3-1/2 in. (89 mm).

See Optical Fiber/Communication Cable Raceways (QAZM) category in the Electrical Construction Materials Directory for names of manufacturers.

- 4. Pipe Insulation (Optional) Pipe insulation may be installed on one or more of the metallic pipes or tubes (Items 2A, 2B and 2D). When pipe insulation is used, min space between insulated metallic penetrant and bare metallic pipes, conduits and tubing shall be min 1-1/2 in. (38 mm) and min space to periphery of opening shall be 1 in. (25 mm). The following types of pipe insulations may be used:
 - A. Pipe and Equipment Covering Materials* Max 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3 glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
 - See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
 - B. Pipe and Equipment Covering Materials* Max 1-1/2 or 2 in. (38 or 51 mm) thick hollow cylindrical calcium silicate, min 10 or 14 pcf (160 or 224 kg/m3 respectively, units sized to the outside diam of the pipe or tube. Pipe insulation secured with stainless steel bands or with min No. 18 AWG stainless steel wire spaced max 6 in. (152 mm) from each face of wall and spaced max 12 in. (305 mm) OC.
 - C. Tube Insulation-Plastics+++ Max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the foarm of tubing. This pipe insulation may be installed on metallic pipes or tubes (Items 2A, 2B and 2D) not exceeding nom 2 in. (51 mm) diam.
 - See Plastics+++ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.



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- 5. Cables (Optional) Maximum eight 3 in. (76 mm) diam (or smaller) tight bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The space between the cables and periphery of the opening shall be min 1-3/16 in. (30 mm) to 26 in. (660 mm). The space between cables bundles and/or other penetrants shall be min 1-1/2 in. (38 mm) to max 26 in. (660 mm). Any combination of the following types and sizes of cables may be used:
 - A. 1/C 750 kcmil (or smaller) power cable with EPR polyvinyl chloride (PVC) insulation and jacket.
 - B. 300 pair No. 24 AWG telephone cable with PVC insulation and jacket.
 - C. 24 fiber optic cable with PVC outer and subunit jacket.
 - D. 3/C No. 12 AWG copper conductor Metal Clad+ cable with PVC insulation.
 - E. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
 - F. Type R GU/59 coaxial cable with PVC outer jacket.
 - G. 4 pair 22 AWG Cat 5 or Cat 6 data cable.
- 6. Firestop System The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material*-Fire Blocks Fire block installed with 5 in. (127 mm) dimension projecting through and centered in opening. Blocks firmly packed to completely fill the area of the opening. In concrete block walls, fire block to be installed to full thickness of wall unless wall is solid filled. Either one or a combination of the block types specified below may be used.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS 657 Fire Block or CFS-BL Firestop Block
 - B. Fill, Void or Cavity Material* Fill material to be forced into interstices of cables, and in any voids/openings between blocks, around penetrants, and between blocks and periphery of opening to the maximum extent possible on both surfaces of wall.
 - HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CP618 Firestop Putty Stick, CP 660 Firestop Foam or CP 620 Fire Foam (Note: L Ratings apply only when FS-ONE Sealant is used.)
 - C. Wire Mesh When the annular space exceeds 4 in. (102 mm) between penetrants and/or to the periphery of the opening, max 2 by 2 in. (51 by 51 mm) wire fencing shall be used to keep the blocks in place. The wire fencing shall be fabricated from min No. 16 SWG (0.060 in. or 1.5 mm) galv steel wire. The wire is cut to fit the contour of the penetrating item with a min 3 in. (76 mm) lap beyond the periphery of the opening. Wire fencing secured to both surfaces of wall by means of 1/4 in. diam by 1 in. long steel concrete anchors and 1/4 in. by 1-1/2 in. diam fender washers spaced max 8 in. (203 mm) OC. The joints within the wire mesh shall overlap a min of 2 in. (51 mm) and be secured together by means of No. 16 AWG steel wire spaced 8 in. (203 mm) OC.

Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),
respectively.	



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WJ 8047

Firestop Block (CFS-BL)

Product description

Ready-to-use, intumescent flexible block designed to seal medium to large size openings

Product features

- Integrated "Grid-Tech" increases Annular Space up to 12"
- Suitable for re-penetration or new penetrations
- Economical to use with short installation times
- Easy installation no special tools required
- Ideal for use in floors no forming required
- One sided wall systems available
- Halogen, asbestos and solvent free
- Operational immediately after installation
- Smoke resistant

Areas of application

- Sealing single or multiple penetrations in small to large openings
- Temporary or permanent sealing of cables and cable tray penetrations
- Temporary or permanent sealing of insulated and non-insulated metallic pipes and combustible pipe penetrations

For use with

- Walls (UL tested up to max. opening 72" x 36")
- Floors (UL tested up to max. opening 72" x 36")
- Concrete, porous concrete, masonry and gypsum wall assemblies
- Wall assemblies rated up to 4 hours
- Floor assemblies rated up to 3 hours

Examples

- Completely dust and fiber free rooms and places where electrical installations are frequently used (ie: computer centers, hospitals, laboratories, etc.)
- New buildings in the construction phase and during renovation

Installation instructions for Firestop Block CFS-BL

Large openings containing multiple penetrations as found in production bays, warehouses, hospitals etc.

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. Penetration and penetration supporting structures must be installed in compliance with local building and electrical standards

Application of Firestop Blocks

- 2a.If no penetrations are located, build up Firestop Block CFS-BL, firmly seated, within opening.
- 2b.If penetrations are located, build up Firestop Block CFS-BL, firmly seated, while cutting blocks with a knife to suit the placed penetrations.
- 3. Finish building up Firestop Blocks until entire opening is filled.
- 4. Completely fill cable spaces, gaps between blocks and pipes, and joints with FS-ONE Firestop Sealant (as required).
- 5. For maintenance reasons, a penetration seal could be permanently marked with an identification plate. In such a case, mark the identification plate and fasten it in a visible position next to the seal.



Technical Data* CFS-BL 40° F to 104° F (5° C to 40° C) Application temperature 5° F to 140° F (-15° C to 60° C) Temperature resistance Approx. 392° F (200° C) Intumescent activation Expansion ratio (unrestricted) Up to 1:3 Surface burning characteristics Flame Spread Index: 10 (ASTM E 84-10b) Smoke Development Index: 15 Sound transmission classification STC Rating: 52 (ASTM E 90) Tested in accordance with

• UL 1479 • ASTM E 814 • ASTM E 84

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

Color



- Re-installing cables or other penetrations
- Remove or cut the block from the seal.
- Install the penetrant and re-lay the block in • compliance with the approval. Fill gaps and spaces with FS-ONE Firestop Sealant (as required). Single cables can be run through joints between blocks or a hole can be drilled through a block using a sharpened piece of metal pipe or tubing.

Not for use

In wet rooms, outdoors or exposed to the weather or UV radiation (can be done only after applying an additional silicone coating, i.e. CP 601S).

Storage

Store only in the original packaging in a location protected from moisture and direct sunlight



or CP 618 putty (as

required)



2a. Build up blocks Clean opening

2b. Cut blocks to size for penetrations

plate in place (If required)

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Red



Certificate of Compliance

Certificate Number	20 [·]
Report Reference	File
Issue Date	20 ⁻

0111214-R13240 ile R13240 011 December 14



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

This is to certify that representative samples of

Fill, Void or Cavity Materials CFS-BL Firestop Block

Have been investigated by Underwriters Laboratories 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." Third Edition revised March 1, 2010

Additional Information: See UL On-line Certification Directory at <u>WWW.UL.COM</u> for additional information.

CFS-BL Firestop Block 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: W 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

William R. Carney

Director, North American Certification Programs

Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

For questions, please contact a local UL Customer Service Representative at http://www.ul.com/global/eng/pages/corporate/contactus



1 Identification of the substance/mixture and of the company/undertaking

 Product identifier · Trade name: Hilti Firestop Block CFS-BL / CFS-BL P Hilti Firestop Plug CFS-PL Hilti Firestop Cable Collar CFS-CC / CFS-RCC / CFS-RCC EXT Hilti Firestop Module Box CFS-MB Hilti Firestop Cushion CFS-CU Hilti Firestop Board CP 675 Hilti Firestop Speed Sleeve CFS-SL Hilti Firestop Retrofit Sleeve CFS-SL RK Hilti Firestop Sleeve Kit CFS-SL SK Hilti Firestop Gangplate CFS-SL GP Hilti Firestop Cable Module CFS-T Hilti Firestop Filler Module CFS-T FB Hilti Firestop Plug Seal CFS-T RR

Hilti Firestop Plug Seal CFS-T RRS Hilti Firestop Wedge Seal CFS-T WD120 Hilti Firestop Cast-In Device CFS-CID Hilti Firestop Drop-In Device CFS-DID Hilti Foil Tapes CS-FT all Hilti Multifunctional Tapes CS-MFT all Hilti Joint Sealing Tapes CS-JST all Hilti Firestop Top Track Seal CFS-TTS CP 651N CP 653 CP 657 CP 658 CP 680 CP 681

· Application of the substance / the preparation: Construction chemicals

Refer to Hilti product literature, technical data sheets, 3rd party published listings and national approvals for specific application information. For more details please contact your local Hilti organization through <u>http://www.hilti.com.</u>

· Manufacturer/Supplier:

Hilti AG Feldkircherstr. 100 Postfach 333 FL-9494 Schaan Liechtenstein

Customer Service Phone +423 (0)844 84 84 85 Fax +423 (0)844 84 84 86

2 Other information

A Material Safety Data Sheet is not required due to the classification of these products as "articles" according to Regulation (EC) No. 1907/2006 of 18 December 2006 / 29CFR 1910.1200 (U.S.A.). Consequently, these products are exempted from CLP / OSHA Labeling and MSDS requirements.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Informing department:

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



September 24, 2015

To Whom It May Concern:

Re: Hilti CFS-BL, Firestop Block – LEED Info.

Item Number:

2030020

The CFS-BL is manufactured in Kaufering, Germany.

There is no post-consumer or post-industrial content in CFS-BL and it cannot be recycled. The CFS-BL does not contain any Rapidly Renewable Materials. The VOC content for CFS-BL is 5.4 grams/liter.

CFS-BL 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) 872-3704 if you have questions.

Sincerely,

Jey Metcall

Jerry Metcalf MPH, CHMM Sr. Mgr. 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

Firestop Putty Stick CP 618

Product description

 An intumescent, non-hardening, firestop putty for cable and pipe penetrations

Product features

- Contains no volatile solvents or asbestos
- Easy to re-penetrate
- Reusable
- Easy to add or remove cables
- Fast installation

Areas of application

- Single or bundled cables
- Non-combustible pipe
- Blank openings

For use with

- Concrete, masonry and gypsum wall assemblies
- Wall and floor assemblies rated up to 3 hours

Examples

- Where telecommunication and data lines penetrate gypsum wall assemblies
- Where steel conduit and EMT penetrate concrete and block wall assemblies
- Where blank openings exist in concrete and block wall assemblies

Installation instructions

See Hilti Literature or third-party listings for complete application and installation details



Technical data

Volume	18 in ³
Consistency	Moldable putty
Color	Red
Application temperature	32°F to 104°F (0°C to 40°C)
Curing time	Non-curing
Density	Approx. 1.6 g/cm ³
Surface burning characteristics (ASTM E84-96)	Flame Spread: 15 Smoke development: 10
Sound transmission classification (ASTM E 90-97)	49 (Relates to specific construction)
Tested in accordance with	UL 1479 ASTM E 814 ASTM E 84 ASTM G21

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







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CERTIFICATE OF COMPLIANCE

Certificate Number **Report Reference Issue Date** 20160829-R13240 R13240 2016-August-29

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 618 Firestop Putty Stick for use in Through-Penetration Firestop 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.

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 of UL. For question contact a local UL Customer Service Representative at



Reviewed on 06/30/2015

1 Identification

· Product identifier

- · Trade name:
- Hilti Firestop Putty Bandage CFS-P BA CP 617 CP 618 CP 619
- CFS-D 1" CFS-D 25
- · 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).

- · 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 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: Fire prevention compound with Polyisobutylene agent base
- · Dangerous components:
- 78-42-2 tris(2-ethylhexyl) phosphate
- Additional information For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- \cdot After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, 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.

(Contd. on page 2)

Xi R36/38 2-5%

Reviewed on 06/30/2015

· 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
- Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling
- 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 40 °C / 23 104 °F
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Storage class 13
- · 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 required.
- · Protection of hands:



Protective gloves.

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
- Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.

(Contd. on page 3)

US

(Contd. of page 1)



Reviewed on 06/30/2015

(Contd. of page 2)

· Eye protection:



Tightly sealed goggles.

EN 166 + EN 170



9 Physical and chemical properties

· Information on basic physical and chemical properties	
Form:	Pasty
Color:	Red
Odor:	Characteristic
· Odour threshold:	Not determined
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	undetermined
· Flash point:	Not determined
· Flammability (solid, gaseous)	Not determined
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined
Upper:	Not determined
· Vapor pressure:	Not determined
· Density at 20 °C (68 °F):	1.55 g/cm ³ (12.935 lbs/gal) (DIN 51757)
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with	
Water:	Insoluble
· Partition coefficient (n-octanol/water): Not determined	
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
 Other information 	CP 617 - VOC Content: 4.35 g/l (EPA Method 24)
	CP 618 - VOC Content: 31.5 g/l (EPA Method 24)
	CP 619 - VOC Content: 4.5 g/l (EPA Method 24)

10 Stability and reactivity

• **Reactivity** No further relevant information available. • **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

(Contd. on page 4)

US



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.

\cdot 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.
- · 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: Do not allow product to reach ground water, water course or sewage system.
- \cdot 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.

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, ADR, ADN, IMDG, IATA	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 MARPOL the IBC Code	.73/78 and Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	-	

(Contd. on page 5)



Safety Data Sheet acc. to ISO 11014 Version number 2

Reviewed on 06/30/2015

(Contd. of page 4)

15 Regulatory informati

· 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.
· 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.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· National regulations

· Information about limitation of use: Employment restrictions concerning young persons must be observed.

· 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

R36/38 Irritating to eyes and skin.

· 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 06/30/2015 / 1

· 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 IMDG: international Mantime 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) PBT: Denitort Pinceroundering and Toxin

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.



September 24, 2015

To Whom It May Concern:

Re: Hilti CP 618 Firestop Putty Stick – LEEDs Info.

Item Number:

314721

The Hilti CP 618 is manufactured in France.

The packaging for the CP 618 can be completely recycled. There is no post-consumer or post-industrial content in CP 618 and it cannot be recycled. The CP 618 does not contain any Rapidly Renewable Materials. The VOC content for CP 618 is 31.5 grams/liter.

CP 618 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) 872-3704 if you have questions.

Sincerely,

Jey Metrall

Jerry Metcalf MPH, CHMM Sr. Manager, Safety/Environmental Manager 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

High-performance intumescent firestop sealant FS-ONE MAX

Applications

- For effectively sealing most common through penetrations in a variety of base materials
- For use on concrete, masonry and drywall
- Mixed and multiple penetrations
- Metal pipe penetrations: copper, steel and EMT
- Insulated metal pipe penetrations: steel and copper
- Plastic pipe penetrations: closed or vented

Advantages

- US-produced: "Buy American" compliant
- One product for a variety of common through penetrations
- Cost-effective, easy-to-use solution
- Water-based and paintable
- Industry-leading VOC results
- Ethylene glycol-free







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FBC:

FILL, VOID OR CAVITY MATERIAL FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS US SEE UL FIRE RESISTANCE DIRECTORY

66Y7



FM

Mold and mildew resistant



resistant

Intertek



Technical data	
Chemical basis	Water-based acrylic dispersion
Approx. Density	84.3 lb/ft ³
Color	Red
Application temperature range	41 - 104 °F
Approx. cure time ¹⁾	4 mm/3 days
Temperature resistance range	-4 to 212 °F
Mold and mildew performance	Class 0 (ASTM G21-96)
Mold and mildew resistance	Yes
Surface burning characteristics UL 723 (ASTM E84)	Flame spread: 0 Smoke development: 10
Tested in accordance with	UL 1479, ASTM E814, ASTM E84, CAN/ ULC-S115, ASTM G21, ASTM E90
California State fire marshal approval	CSFM Listing 4485-1200:0108 for FS-ONE MAX Intumescent Firestop Sealant
Expansion ratio (unrestricted, up to)	1:5

1) at 75°F/24°C, 50% relative humidity



Order Designation	Package Content	Item number
FS-ONE MAX 20oz foil (3 case + disp)	1x Foil pack dispenser manual CS 270-P1, 75x Firestop sealant FS-ONE MAX 20 oz foil	3530252
FS-ONE MAX 10oz tube (1 case)	12x Firestop sealant FS-ONE MAX 10 oz cartridge	3530249
FS-ONE MAX 5 gallon (18 pails)	18x Firestop sealant FS-ONE MAX 5 gallon pail	3530263
FS-ONE MAX 20oz foil (1 case)	25x Firestop sealant FS-ONE MAX 20 oz foil	3530250
FS-ONE MAX 20oz foil (3 cases)	75x Firestop sealant FS-ONE MAX 20 oz foil	3530251
FS-ONE MAX 20oz Foil-Pallet	600x FSONE-MAX 20 oz foil, 290x Bulk Shipping Condition	3534713
FS-ONE MAX 10 oz cartridge		2101531
FS-ONE MAX 5 gallon pail		2101533

Hilti. Outperform. Outlast.





5

Date: June 22, 2015

Subject: Buy American Certification

Product: Firestop sealant FS-ONE MAX 10.10Z Cartridge (Item #2101531) Firestop sealant FS-ONE MAX 20.00Z Foil (Item #2101532) Firestop sealant FS-ONE MAX 5GAL Pail (Item #2101533)

To Whom it May Concern:

Hilti, Inc. certifies that the above referenced product(s) as described on the Purchase Order identified above, is (are) a domestic end product (as defined in FAR Subpart 25.1, "Buy American Act--Supplies"), or satisfies the preference for domestic construction material (as defined in FAR Subpart 25.2, "Buy American Act--Construction Materials").

Sincerely,

TAMAS MI, HOLD

Thomas M. Horan, QA Manager

Buyamericanfsonemax.doc

Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74121 USA

T (918) 872-3000 I F 800-879-7000 www.hilti.com

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/17/2015 Revision date: 12/17/2015 Supersedes: 12/17/2015

Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form Name Product code Chemical structure Mixture

FS-ONE MAX; Hilti Firestop Filler Mastic CFS-FIL 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

1/7

Safety Data Sheet

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

SECTION 3: Composition/infor	mation on ingredients		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Quartz	(CAS No) 14808-60-7	2.5 - 5	Carc. 1A, H350
Full text of H-statements: see section 16			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	Get medical advice/attention if you fe	eel unwell.	
First-aid measures after skin contact	Wash skin with plenty of water. If ski	n irritation occurs: Get	medical advice/attention.
First-aid measures after eye contact	Rinse cautiously with water for sever do. Continue rinsing. If eye irritation	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 measures after ingestion	Get medical advice/attention if you fe	eel unwell.	
4.2. Most important symptoms and ef	fects, both acute and delayed		
No additional information available			
4.3. Indication of any immediate medi	cal attention and special treatment r	needed	
No additional information available			
SECTION 5: Firefighting measu	ires		
5.1. Extinguishing media			
Suitable extinguishing media	Water spray. Dry powder. Foam. Ca	rbon dioxide.	
5.2. Special hazards arising from the	substance or mixture		
Reactivity	The product is non-reactive under no	ormal conditions of use	e, storage and transport.
5.3 Advice for firefighters			
Protection during firefighting	Self-contained breathing apparatus	Complete protective c	lathing
			louning.
SECTION 6: Accidental release	measures		
	indudured		
6.1. Personal precautions, protective	equipment and emergency procedur	res	
6.1.1. For non-emergency personnel			
No additional information available			
6.1.2. For emergency responders			
Protective equipment	For further information refer to section	on 8: "Exposure contro	ls/personal protection".
6.2. Environmental precautions			
No additional information available			
6.3. Methods and material for contain	ment and cleaning up		
Methods for cleaning up	Recover mechanically the product.		
6.4. Reference to other sections			
For further information refer to section 13.			

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

SECTION 7: Handling and s	torage
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, i	ncluding 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

Quartz (14808-60-7)		
OSHA	Remark (OSHA)	(3) See Table Z-3.

8.2. Exposure controls

Personal protective equipment

Protective clothing. Safety glasses. Gloves.



Hand protection Eye protection Skin and body protection 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
Odour	characteristic
Odour threshold	Not determined
рН	≈ 7.85
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	≈ 1.35 g/cm³
Molecular mass	Not determined

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Solubility	No data available
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	

VOC content

9 g/l

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
	pH: ≈ 7.85
Serious eye damage/irritation	Not classified
	pH: ≈ 7.85
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

Qualtz (14000-00-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Quartz (14909-60-7)

Safety Data Sheet

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

SECTION 12: Ecological infor	mation
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 consid	lerations
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 inforr	nation
In accordance with ADR / RID / IMDG / IAT	A / 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

17/12/2015

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.

Quartz (14808-60-7) Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA	
FS-ONE MAX; Hilti Firestop Filler Mastic CFS-	FIL
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

Safety Data Sheet

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

Quartz (14808-60-7)	
Listed on IARC (International Agency for Research on Cancer)	

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	12/17/2015
Full text of H-statements:	
Carc. 1A	Carcinogenicity, Category 1A
H350	May cause cancer
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



August 26, 2015

To Whom It May Concern:

Re: Hilti FS-ONE Max Firestop – LEED Info.

Item Numbers:

2101531	
2101532	
2101533	

The Hilti FS-ONE MAX Firestop is manufactured in the United States

There is no post-consumer or post-industrial content in FS-ONE MAX and it cannot be recycled. The VOC content for FS-ONE MAX is 9 grams/liter.

FS-ONE MAX 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,

Jey Metcall

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

Rev. Date: 7/31/15

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