CP 672 FC (Fast Cure) Firestop Joint Spray

Product description

- A sprayable fire-rated mastic for perimeter joints where movement and rain resistance is required

Product features

- Sprayable or apply by brush
- Maximum flexibility, meets 500 cycle requirements (ASTM E 2307)
- Quick and easy installation with the Titan 600 or 1100 Sprayers can help save you time and money
- Contains no halogens or asbestos
- Water based formulation so spills and over-spray clean up quickly and easily
- Paintable
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

Areas of application

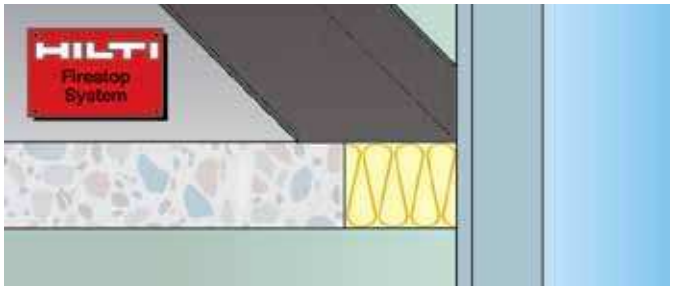
- For ventilated areas only during the cure process
- Curtain wall/edge of slab

For use with

- Floor assemblies rated up to 2 hours

Examples

- Where a concrete floor assembly meets with non-rated exterior wall (concrete, glass, etc.)



Technical Data*	CP 672 FC
Density	10.43 lb/gal (1.25 g/cm³)
Color	Gray (white mixed with black curing agent)
Application temperature	40° F to 104° F (5° C to 40° C)
Temperature resistance	-40° F to 176° F (-40° C to 80° C)
Consistency	Sprayable liquid
Chemical basis	Latex based dispersion
Tack free time (ventilated)[1]	Approx. 5.5 hrs @ 77° F, 80% humidity
Rain resistance time (ventilated)[2]	Approx. 7.5 hrs @ 77°F , 80% humidity
Ph-value	Approx. 8
Surface burning characteristics (ASTM E 84-08)	Flame Spread: 5 Smoke Development: 10
Sound transmission classification (ASTM E 90-99)	55 (Relates to specific construction)
Approvals • California State Fire Marshal - 1452-1200:109	
Tested in accordance with • ASTM E 84 • ASTM E 2307 • ASTM G21	

*At 77°F and 80% relative humidity

1. Tack free in that case means that CP 672 FC is not tacky anymore and additionally has built a thin skin to resist gently running water. Ventilated is defined as strong air movement — otherwise curing times can be significantly extended.
2. Rain resistant means that CP 672 FC has built a thick skin to withstand short periods of driving rain and standing water. Ventilated is defined as strong air movement — otherwise curing times can be significantly extended.

Note: Fully cured is the final state when all porduct requirements are fulfilled as designed.

FILL, VOID OR CAVITY MATERIAL
FOR USE IN PERIMETER FIRE
CONTAINMENT SYSTEMS
SEE UL FIRE RESISTANCE DIRECTORY
66Y7

Installation instructions for CP 672 FC

Notice

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

Opening

1. Clean the opening. Surfaces to which CP 672 FC will be applied should be cleaned of loose debris, dirt, oil, wax and grease. The surface should be moisture and frost free.
2. Install curtain wall insulation and other system components if required.

Application of firestop spray

3. Mineral wool packing: Install the prescribed back filling material type and depth to obtain desired rating.
4. Mixing of CP 672 FC: Take off the lid. Remove and open small plastic container, and empty into pail of white spray (remove plastic cover first). Mix with mixing paddle for 3 minutes until spray turns gray.
5. Application of firestop spray: Apply CP 672 FC to the required depth in order to obtain the desired rating. Make sure CP 672 FC contacts all surfaces and overlaps beyond all surrounding surfaces (Refer to UL System). Titan Sprayers have been successful in applying CP 672 FC Speed Spray. Hilti recommends the use of the Titan 600 (for application temperatures above 50°F) or 1100 Sprayers. CP 672 FC may also be brushed on with a paint brush. Contact Hilti Technical Support for more information.
6. Curing time: Allow 7.5 hours (at 77°F) for the CP 672 FC to provide resistance to rain. Full cure in 3-5 days for typical application thickness.
7. Identification: For maintenance reasons all CP 672 FC 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 40°F to 77°F (5°C to 25°C)
- Observe expiration date on package

Hilti Firestop
Saving lives through innovation and education

Hilti. Outperform. Outlast.

MATERIAL SAFETY DATA SHEET

Product name: **CP 672 FC Speed Spray**

Description: Acrylic Fire Stop Joint Spray

Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

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

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV: mg/m^3	PEL: mg/m^3	STEL: mg/m^3
Calcium carbonate	1317-65-3	NE	15 (T); 5 (R)	NE
Ethylene glycol	107-21-1	NE	NE	C: 100
Zinc borate	1332-07-6	NE	NE	NE
Polyethylenimine	9002-98-6 or 25987-06-8	NE	NE	NE

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

PHYSICAL DATA

Appearance:	Grey sprayable paste	**Odor:**	Mild odor
Vapor Density: (air = 1)	Not applicable	**Vapor Pressure:**	Not determined
Boiling Point:	Not determined	**VOC Content:**	24.7 g/L
Evaporation Rate:	Not determined	**Solubility in Water:**	Soluble
Specific Gravity:	1.3	**pH:**	7 - 11

FIRE AND EXPLOSION HAZARD DATA

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

REACTIVITY DATA

Stability:	Stable.	**Hazardous Polymerization:**	Will not occur.
Incompatibility:	None known.		
Decomposition Products:	Thermal decomposition can yield oxides of carbon and nitrogen.		
Conditions to Avoid:	Avoid temperature extremes which could shorten the shelf-life of this product; i.e. below 40° and above 77° F. (See handling and storage requirements).		

HEALTH HAZARD DATA

Known Hazards:	**Acute**: No effects expected; irritation is possible. **Chronic**: None known
Signs and Symptoms of Exposure:	**Eyes:** Can cause irritation or watering but injury is unlikely. **Skin:** Irritation is possible with some individuals. **Inhalation:** No effects expected. **Ingestion:** Effects of ingestion have not been determined.
Routes of Exposure:	Contact.
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	None known

EMERGENCY AND FIRST AID PROCEDURES

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

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	While spraying, chemical goggles are recommended. As a minimum, wear safety glasses with side shields.
Skin Protection:	Impermeable gloves recommended.
Respiratory Protection:	Dust/mist respirator may be required during spraying operations.

PRECAUTIONS FOR SAFE HANDLING AND USE

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

REGULATORY INFORMATION

Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard. 29 CFR 1910.1200.
HMIS Codes:	Health 1, Flammability 0, Reactivity 0, PPE B (Glasses, Gloves)
DOT Shipping Name:	Not regulated.
IATA / ICAO Shipping Name:	Not regulated.
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product contains 1 – 2.5% ethylene glycol (CAS 107-21-1) and 1-2.5% Zinc borate (CAS #1332-07-6) which is subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service:	1 800 879 8000	**Technical Service:**	1 800 879 8000
Health / Safety:	1 800 879 6000 Jerry Metcalf (x6704)		
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

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

Certificate of Compliance

Certificate Number **20080917-R13240**
Report Reference **2008 September 17**
Issue Date **2008 September 17**

Underwriters Laboratories Inc.®

Issued to: Hilti, Inc.

5400 S 122ND East Ave
Tulsa, OK 74146 USA

This is to certify that representative samples of Fill, Void or Cavity Materials
CP 672 FC Firestop Joint Spray

Have been investigated by Underwriters Laboratories Inc.® (UL) or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/ASTM E2307, "Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus,"

Additional Information: CP 672 FC Firestop Joint Spray for use in Perimeter Fire Containment System as currently described in the UL Fire Resistance Directory.

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

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

Look for the UL Classification Mark on the product

Issued by:
Mona Couloute
Underwriters Laboratories Inc.

Reviewed by:
Steven Hoffman
Underwriters Laboratories Inc.