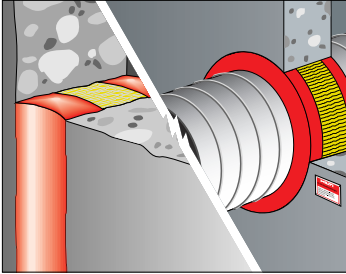


CP 601S

Elastomeric Firestop Sealant



System Advantage / Customer Benefits

- Simple use and application
- Good adhesion without use of a primer
- Smoke, fume and water resistant
- Excellent movement capability, meets 500 cycle requirements (ASTM E 1966 & UL 2079)
- Meets UL requirement rating for class I W rating

Installation instructions for CP 601S

Opening

1. Clean the opening. Joint sides and surfaces to which CP 601S will be applied must be sound, dry and free from dust, oil and grease.

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 601S 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.

Chemical resistance

- At room temperature the cured silicone sealant is resistant for a short time to diluted (15%) acids and lyes/alkalis as well as most commercially available cleaning agents and disinfectants (except those containing iodine).
- Concentrated acids and lyes/alkalis destroy silicone rubber over time.
- Solvents and mineral oils cause cured silicone to swell. Consequently, proper functioning of the sealant should be checked after exposure to a solvent or mineral oil. Please contact your local sales representative or the

nearest Hilti center if special requirements for chemical resistance have to be met.

Notice about approvals

- When using Hilti CP 601S Elastomeric Firestop Sealant, check that the joint or pipe application has been sealed according to the applicable drawing in the UL/cUL Fire Resistance Directory or the Hilti Firestop Manual.

Not for use...

- In areas immersed in water
- Not to be painted

Safety precautions

- Keep out of reach of children
- Read the Material Safety Data Sheet
- Eyes and hands must be suitably protected
- Avoid contact with eyes/skin
- Only use in well ventilated areas

Storage

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

CP 601S

Technical Data

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

Density

Approx. 1.4 g/cm³

Color

Red

Application temperature

40°F to 104°F (5°C to 40°C)

Skin-forming time

Approx. 15 min.

Curing rate

Approx. 2 mm / 3 days

Volume shrinkage

Approx. 0 – 5%

Movement capability

Approx. 25%

Temperature resistance

–40°F to 320°F (–40°C to 160°C)

Surface burning characteristics

(ASTM E84-96)

Flame spread: 0

Smoke development: 30

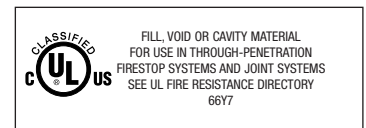
Sound transmission classification

(ASTM E 90-97): 50

Tested in accordance with

- UL 2079
- ASTM E 1966
- UL 1479
- ASTM E 814
- ASTM C 920
- ASTM E 84
- CAN4-S115-95M
- ULC-S115-95M

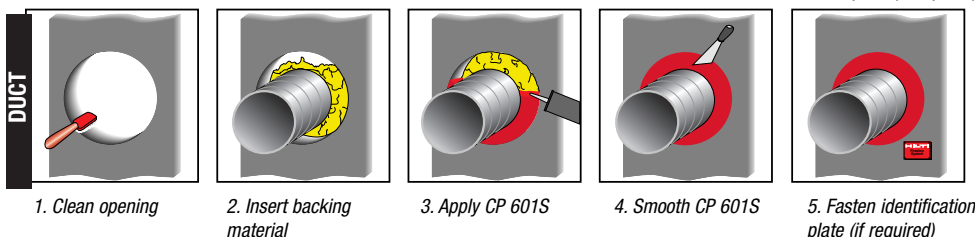
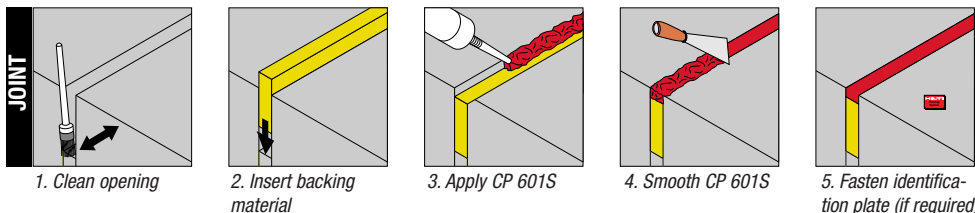
Internationally tested and approved



latest product information : www.ca.hilti.com

ordering information see page:

29



MSDS No.: 266C
 Revision No.: 004
 Revision Date: 08/17/04
 Page: 1 of 2

Product identifier: CP 601S Elastomeric Firestop Sealant

Product use:	Fire resistant silicone based sealant for use in fire rated joint applications
Supplier:	Hilti (Canada) Corporation, 6790 Century Avenue, Suite #300, Mississauga, Ontario L5N 2V8
Originator:	Hilti, Inc., P. O. Box 21148, Tulsa, Oklahoma, USA 74121
Emergency number:	Chem-Trec: 1 800 424 9300

INGREDIENTS INFORMATION

Ingredient	CAS Number	% (wt.)	LC ₅₀ (rat)	LD ₅₀ (rat)	TLV	STEL
Calcium carbonate	000471-34-1	45 - 55	N/Av	N/Av	N/A	N/E
Polydimethylsiloxanes	068037-58-1	25 - 35	N/Av	N/Av	N/E	N/E
Siloxanes and silicones, di-Me	063148-62-9	20 - 40	N/Av	> 24,000 mg/kg	N/E	N/E
Fumed silica	112945-52-5	03 - 09	N/Av	N/Av	N/A	N/E
Methyltrimethoxysilane	001185-55-3	01 - 05	N/Av	N/Av	N/E	N/E
Hydrogenated castor oil	008001-78-3	< 1	N/Av	> 10,000 mg/kg	N/E	N/E

PHYSICAL PROPERTIES

Appearance / Physical state:	Red paste.	Odour:	Negligible odour.
Specific gravity (at 20°C):	1.3 - 1.4	VOC Content:	3.0 g/L
Vapour pressure (at 20°C):	23 mbar	Vapour density:	Not applicable.
Evaporation rate:	Not determined.	Boiling point:	Not determined.
Freezing point:	Not determined.	pH:	Not determined.
Coefficient of H2O / oil distrib:	Not determined.	Solubility in water:	Negligible.

FIRE AND EXPLOSION DATA

Flash point / Method:	Nonflammable.	Flammable limits:	Not applicable.
Conditions of flammability:	> 300° F / 150° C	Auto-ignition temperature:	Not applicable.
Means of extinction:	As appropriate for surrounding fire (e.g. Water, CO2, Dry Chemical, Foam).		
Special fire fighting procedures:	None known. A NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.		
Hazardous combustion products:	None known. Thermal decomposition products such as oxides of carbon, carbon fluoride and formaldehyde may be evolved at temperatures >150C/300F. The chemical nature and quantity of decomposition byproducts will vary widely depending on the conditions of combustion.		
Sensitivity to mechanical impact / static discharge:	Not susceptible to mechanical impact or to a static discharge.		

REACTIVITY DATA

Stability:	Stable.	Conditions of reactivity:	None known.
Incompatible materials:	Strong acids, peroxides and amines.		
Hazardous decomposition products:	Thermal decomposition can yield oxides of carbon, carbon fluoride and formaldehyde may be evolved at temperatures >150C/300F.		

TOXICOLOGICAL PROPERTIES

Routes of exposure:	<input checked="" type="checkbox"/> Skin contact	<input type="checkbox"/> Skin absorption	<input checked="" type="checkbox"/> Eye contact	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
Exposure limits:	See "Ingredients" section above.				
Acute effects of exposure:	Yes: Can cause irritation but injury is unlikely. Skin: No effects expected. Irritation is possible with some individuals. Inhalation: No effects expected. Ingestion: Not considered a route of exposure. Effects of ingestion have not been determined. Considered to have a low acute oral toxicity.				
Chronic effects of exposure:	None known.				
Synergistic materials:	None known.				

INTRODUCTION

APPLICATIONS / PRODUCTS

SYSTEM DETAILS

ESTIMATING TABLES / TECH DATA

MSDS No.: 266C
 Revision No.: 004
 Revision Date: 08/17/04
 Page: 2 of 2

FIRST AID MEASURES

Eyes:	Flush with plenty of water. Call a physician if symptoms occur.
Skin:	Wash with soap and water. Seek medical attention if any effects persist.
Inhalation:	No ill effects expected. Should discomfort occur, move to fresh air.
Ingestion:	Do not induce vomiting unless large amounts are ingested. If conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. 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

Engineering controls:	General (natural or mechanically induced fresh air movements).
Eye protection:	As appropriate for the work area or work being done.
Skin protection:	Cloth gloves are suitable.
Respiratory protection:	None normally required.
Other:	No additional measures are normally required.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling procedures and equipment:	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.
Storage requirements:	Store in a cool dry area. Keep from freezing. Store between 5° and 25° C.
Spill, leak or release:	Immediately wipe away spilled material before it hardens. Place in a container for proper disposal.
Waste disposal:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, provincial, and federal safety, health and environmental regulations.
Special shipping instructions:	Avoid temperature extremes. Keep from freezing.

REGULATORY INFORMATION

WHMIS classification:	D2B
HMIS codes:	Health 1, Flammability 1, Reactivity 0, PPE A
TDG shipping name:	Not regulated.

PREPARATION INFORMATION / CONTACTS

Prepared by:	Hilti, Inc., Tulsa, OK USA
Emergency phone number:	1 800 424 9300
Customer Service:	Hilti (Canada) Corporation, Mississauga, Ontario; 1 800 363 4458
Health / Safety contacts:	Hilti, Inc., Tulsa, OK USA; 1 800 879 6000, Jerry Metcalf (x6704)
Abbreviations used:	N/E = None Established. N/A = Not Applicable. N/Av = Not Available. HMIS: Hazardous Materials Identification System

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

Certificate of Compliance

Certificate Number **20060214-R13240**
Report Reference **2006 February 14**
Issue Date **2006 February 14**

Page 1 of 1



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


This is to certify that representative samples of **Fill, Void or Cavity Materials**
CP601S

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


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

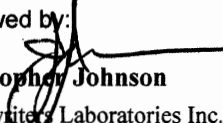
Additional Information: **CP601S Sealant for use in Joint Systems and CP601S Sealant for use in Through-Penetration Firestop Systems as currently described in the UL Fire Resistance Directory.**

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

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

Look for the UL Classification Mark on the product

Issued by:

Mona Couloute
Underwriters Laboratories Inc.

Reviewed by:

Christopher Johnson
Underwriters Laboratories Inc.