

CP 604

Technical Data

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

Chemical basis

Neutral elastic silicone

Density

Approx. 1.35 g/cm³

Color

Gray

Application temperature

40°F to 104°F (5°C to 40°C)

Temperature resistance

-4°F to 248°F (-20°C to 120°C)

Curing time

Approx. 5 mm/3 days

Tensile strength (modulus of elasticity)

Approx. 0.7 N/mm²

Shore A Hardness

Approx. +20%

Joint movement capability

Approx. +20%

Surface burning characteristics (ASTM E 84-00)

Flame Spread: 5

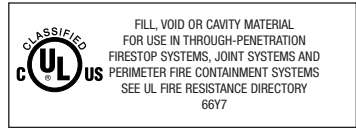
Smoke Development: 60

Tested in accordance with

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

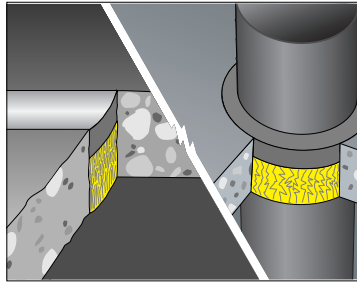
Internationally tested and approved

- CAN4-S115-95M



CP 604

Self-Leveling Firestop Sealant



System Advantage / Customer Benefits

- Meets 500 cycle requirements (ASTM E 1966 & UL 2079)
- Smoke, fumes and water resistant
- Meets UL requirement rating for class I W rating

Product description

- Self-leveling, single-component, silicone-based firestop sealant for use with through-penetrations as well as construction joints in floors.

Product features

- Self-leveling—requires no tooling
- Excellent elongation/compression properties
- Resistant to smoke and water

Areas of application

- Sealing construction/expansion joints
- Metal pipes
- Cable bundles
- Sealing multiple penetrations in small or large openings

For use with

- Concrete floors rated up to 3-hours

Examples

- Penetrations for metal pipes between floor levels
- Construction joints and expansion joints in floors

Installation instructions for CP 604

Opening

1. Clean the opening. Surfaces to which CP 604 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. Allow firestop sealant to level. Once cured, CP 604 can only be removed mechanically.
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.

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 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 604 Self-Leveling 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 Hilti Firestop Manual.

Not for use...

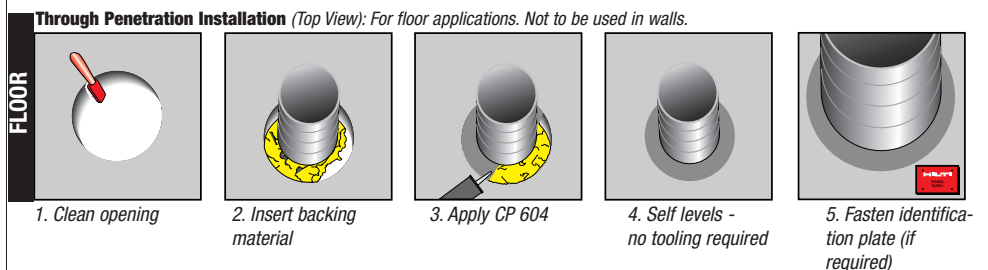
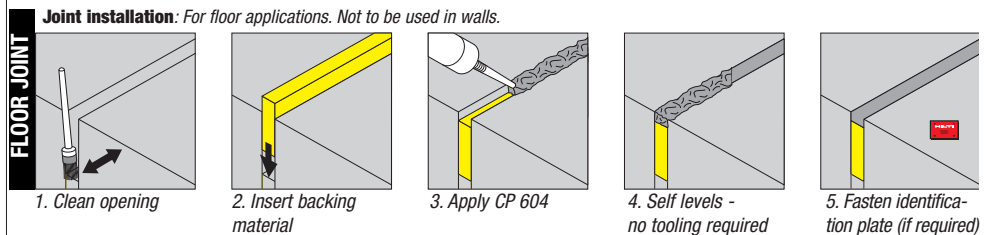
- In areas immersed in water
- Not to be painted

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 (5°C) to 77°F (25°C)
- Observe expiration date on packaging



latest product information : www.ca.hilti.com

ordering information see page:

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MSDS No.: 283C
 Revision No.: 003
 Revision Date: 08/17/04
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Product identifier: CP 604 Self-Leveling Firestop Sealant

Product use: A self-leveling flexible sealant for firestopping construction joints and metal pipes
 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: 1 800 424 9300 (Chem-Trec)

INGREDIENTS INFORMATION

Ingredient	CAS Number	% (wt.)	LC ₅₀ , (rat)	LD ₅₀ (rat)	TLV	STEL
Polydimethylsiloxane diol	70131-67-8	35 – 45	N/Av	> 64 ml/kg	N/A (10 mg/m ³)	N/E
Calcium carbonate	01317-65-3	35 – 45	N/Av	N/Av	N/A (10 mg/m ³)	N/E
Polydimethylsiloxane	63148-62-9	10 – 15	N/Av	N/Av	N/E	N/E
Methyl oximino silane	22984-54-9	0.1 – 05	N/Av	N/Av	N/E	N/E
Vinyl oximino silane	02224-33-1	0.1 – 05	N/Av	N/Av	N/E	N/E
Fumed silica	68611-44-9	0.1 – 05	N/Av	N/Av	N/A (10 mg/m ³)	N/E
Titanium dioxide	13463-67-7	0.1 – 05	N/Av	N/Av	N/A (10 mg/m ³)	N/E
Ferric oxide	01309-37-1	0.1 – 05	N/Av	N/Av	N/E	N/E

PHYSICAL PROPERTIES

Appearance / Physical state:	Grey paste	Odour:	Mild odour.
Specific gravity (at 20°C):	1.3 – 1.4	VOC Content:	53.0 g/L.
Vapour pressure (at 20°C):	Not applicable.	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:	Not easily mixed.

FIRE AND EXPLOSION DATA

Flash point / Method:	Not applicable.	Flammable limits:	Not applicable.
Conditions of flammability:	Not determined.	Auto-ignition temperature:	Not applicable.
Means of extinction:	As appropriate for surrounding fire (e.g. Water, CO ₂ , 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 can be formed; e.g. CO and CO ₂ .		
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:	None known.		
Hazardous decomposition products:	Thermal decomposition products can be formed; e.g. CO and CO ₂ .		

TOXICOLOGICAL PROPERTIES

Likely routes of exposure:	<input type="checkbox"/> None known <input checked="" type="checkbox"/> Skin contact <input type="checkbox"/> Skin absorption <input type="checkbox"/> Eye contact <input checked="" type="checkbox"/> Inhalation			
Exposure limits:	See "Ingredients" section above.			
Chronic effects of exposure:	None known.			
Synergistic materials:	None known.			
Acute effects of exposure:	Eyes: No effects expected. Skin: Prolonged and repeated contact can cause skin sensitization with some individuals (e.g. rash, itching, reddening). Inhalation: No ill effects expected. Ingestion: Effects of ingestion have not been determined. No ill effects expected. NOTE: Reaction with air and moisture during the curing process can release trace amounts of methyl ethyl ketoxime (MEKO). MEKO can be irritating to the eyes, skin and respiratory tract. The body easily metabolizes MEKO; therefore, no lasting or adverse effects are expected.			

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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:	Seek medical attention. Do not induce vomiting unless directed to by a physician. Never give anything by mouth to an unconscious person.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Engineering controls:	General (natural or mechanically induced fresh air movements).
Eye protection:	As appropriate for the work area or other work being done.
Skin protection:	Recommended. 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. Use with adequate ventilation. Keep container closed when not in use. Avoid prolonged or repeated contact with the skin. Practice good hygiene; i.e., wash after using and before eating or smoking.
Storage requirements:	Keep out of reach of children. Store in a cool dry area. Keep from freezing. Store between 5° and 25° C.
Spill, leak or release:	Wear appropriate personal protective equipment. Allow to cure, scrape up and place in a salvage container for proper disposal. See disposal guidelines below.
Waste disposal:	No known restrictions. 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 0, 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/Ap = 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-R13240A**
Report Reference **2006 February 14**
Issue Date **2006 February 14**

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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**
CP604

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, ASTM E2307, CAN/ULC-S115-05**

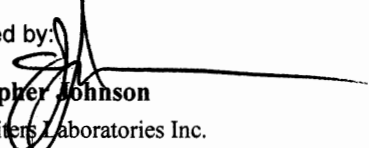
Additional Information: **CP604 Self-Leveling Firestop Sealant for use in Joint Systems, CP604 Self-Leveling Firestop Sealant for use in Perimeter Fire Containment Systems and CP604 Self-Leveling Firestop Sealant for use in Through-Penetration firestop Systems as currently described in the UL Fire Resistance 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

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