

# CSL-381 Technical Data Sheet

## Self-Leveling Silicone Firestop

### 1. PRODUCT NAME

CSL-381 Self-Leveling Silicone Firestop

### 2. FEATURES

- Neutral cure formulation
- Withstands +100%/-50% joint movement
- No tooling required
- Resists passage of water, smoke, dust and toxic gases
- Approved by UL® for firestop systems: CAJ0021, CAJ0022, CAJ1049, CAJ1050, CAJ5026, CAJ8008 and CAJ8009

### 3. PRODUCT DESCRIPTION

CSL-381 is a self-leveling one-part, fire rated silicone sealant specially designed for use in floor penetration systems.

The self-leveling property of CSL-381 means that it will fill floor penetration fire stop systems completely without tooling, leaving a neat, level surface. This provides labor and material savings over the use of conventional thixotropic sealant.

CSL-381 may be applied over a temperature

range of -18°C (0°F) to 50°C (120°F) and will exhibit excellent unprimed adhesion to concrete, metals and most other construction materials, provided they are clean, dry and free of dust or frost. While curing, it does not have the objectionable odor associated with acetoxycure silicone sealants.

At conditions of 25°C (77°F) and 50% relative humidity, CSL-381 will skin over within 75 minutes and cure fully within 24 hours.

It will remain flexible indefinitely between temperatures of -45°C (-50°F) to 149°C (300°F). It will not crack or crumble. If the penetration seal needs to be modified at a later date, CSL-381 may be easily penetrated and then resealed with fresh CSL-381 after modifications.

### 4. INSTALLATION

All surfaces should be clean, dry and frost-free. CSL-381 is a one part system and requires no mixing or additives. Primer is not normally required for most construction materials, although a trial before the commencement of a project is

### Typical Properties

These values are not intended for use in preparing specifications

<b>Uncured</b>	
Type	100% silicone, one-part RTV, self-leveling
Appearance	Smooth, thick liquid
Specific Gravity	1.13
Extrusion Rate (3.2mm (1/8") orifice, 90psi)	100 g/min.
Application Temperature Range	-18°C to 50°C (0°F to 120°F)
Cure System	Neutral, Moisture Cure
Skin-Over Time at Standard Conditions*	75 min.
Cure Time at Standard Conditions*	24 hr.
<b>Cured</b>	
	At Standard Conditions* for 7 Days
Durometer Hardness (ASTM D2240, Shore A)	10 points
Tensile Strength (ASTM D412)	7 kg/cm <sup>2</sup> (100 psi)
Elongation at Break (ASTM D412)	400%
Joint Movement Capability	+100%/-50%
Tear Resistance (ASTM D624, Die B)	3.5 kN/m (20 ppi)
Accelerated Weathering (ASTM C793-91)	No degradation

\*Standard Conditions are 25°C (77°F) and 50% relative humidity

recommended. Should a primer become necessary, please consult CSL Silicones Inc.

A minimum 4" (100mm) thickness of mineral wool batts having a minimum density of 4 pcf should be firmly packed in the opening, leaving a minimum ½" (12mm) recess below the floor surface level. Fill the recess with CSL-381 until it is just about flush with the floor surface.

#### **5. COLORS**

CSL-381 is available only in red.

#### **6. PACKAGING**

CSL-381 is available in 300ml (10.2 fl oz) caulking cartridges and 19L (5 US gallon) pails.

#### **7. STORAGE**

CSL-381 when stored in original unopened container at or below 32°C (90°F) has a one year shelf life from the date of manufacture. Most products however, will last longer if stored in cool dry conditions.

#### **8. SAFETY PRECAUTIONS**

CSL-381 uses a neutral cure system, so no acetic acid or objectionable by-products are evolved during cure. Adequate ventilation should be provided with extensive use of this sealant. On direct contact, uncured sealant may irritate eyes. Flush well with water and call a physician. Avoid prolonged contact with skin. See Material Safety Data Sheet available on this product. **KEEP OUT OF REACH OF CHILDREN.**

#### **9. APPROVED USE**

CSL-381 is designed for sealing floor penetrations against the passage of smoke, water, dust and toxic gases. It is approved by UL® for use in XHEZ Through- Penetration Firestop Systems with F ratings up to 3 hours and T ratings up to 2 hours. Please consult the latest UL® Fire Resistance Directory.

#### **10. WARRANTY**

CSL Silicones Inc. warrants that its products will meet its specifications. CSL shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, CSL's liability, expressed or implied, is limited to the stated selling price of any defective goods.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.

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#### **Head Office**

144 Woodlawn Rd. W., Guelph, ON, Canada, N1H 1B5  
Tel: 519-836-9044 Fax: 519-836-9069

#### **Toronto Office**

365 Evans Ave., Suite 304, Toronto, ON, Canada, M8Z 1B6  
Tel: 416-255-1189 Fax: 416-255-1180  
[www.cslsilicones.com](http://www.cslsilicones.com)

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**CSL Silicones Inc.**  
**Guelph, ON, Canada**  
**N1H 1B5**

Contact CSL Silicones Inc. Head Office for the distributor nearest you.