

# CSL190

## Optically Clear Silicone Sealant/Adhesive

### Technical Data Sheet

Building & Construction



#### TYPICAL USES

- Glass shower enclosures
- Glass on glass applications
- Glass/tile adhesion
- Glass display cases
- Kitchen and bath projects

#### PRODUCT DESCRIPTION

CSL190 is an optically clear, one-part, moisture curing, room-temperature vulcanizing (RTV), 100% silicone sealant/adhesive.

CSL190 optically clear silicone is an excellent choice for building and construction and can be used for glass shower enclosures, glass on glass applications, glass/tile adhesion, and kitchen and bath projects.

CSL190 cures to a strong silicone rubber that maintains long term durability and flexibility. Cured CSL190 rubber will not shrink, crack, crumble, bleed or dry out.

#### APPLICABLE STANDARDS

- ASTM C920-11 Type S, Grade NS, Use NT, M, G, A, O and I specifications
- Federal Specifications TT-S-001543A and TT-S-00230C
- Can/CGSB-19, 13-M87
- CSL190 is EcoLogo Certified

#### PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Type	100% silicone, one-part RTV
Appearance	Smooth, non-slump paste
<b>Temperature Range‡</b>	
Application Temperature Range	Ambient to 50°C (120°F)
Useable Temperature Range	-60°C to 200°C (-76°F to 392°F)
<b>Drying Time*</b>	
Skin-Over Time	10 minutes
Cure Time	24 hours
Full Physical Characteristics	7 days

#### PHYSICAL PROPERTIES

(Typical properties - values not to be used as specifications)

<b>Uncured</b>	
Specific Gravity	1.06
Extrusion Rate (3.2mm (1/8") orifice, 90 psi)	250 g/min
Cure System	Acetoxy, Moisture Cure
<b>Cured At Standard Conditions* for 7 Days</b>	
Durometer Hardness (ASTM D2240, Shore A)	27 points
Tensile Strength (ASTM D412)	300 psi (21.2 kg/cm <sup>2</sup> )
Elongation at Break (ASTM D412)	400%
Shrink Factor	Nil
Joint Movement Capability	±25%

‡Please consult CSL for suitability for application at lower temperatures

\*At standard conditions 77°F (25°C) and 50% relative humidity

#### COLORS

CSL190 is available in Optically Clear.

#### SURFACE PREPARATION

All surfaces should be clean and dry and free of dust, dirt, and grease.

Priming is normally not required for applications to non-porous surfaces. Applying a small trial bead and allowing 7 days for maximum adhesion to occur can easily test unprimed adhesion. If primer is required contact manufacturer.

#### APPLICATION

CSL190 is ready-to-use and requires no mixing or additives.

The cure mechanism begins as soon as the sealant comes in contact with air. At 25°C (77°F) and 50% relative humidity (RH), the sealant will "skin" within 10 minutes and fully cure in 24 hours (1/8" bead), reaching its maximum adhesion in 7 days. Higher humidity accelerates cure, and curing time is increased with the thickness of the sealant. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement.

Tooling, if necessary, should be done before "skinning" takes place.

One 300 ml (10.2 fl. oz.) cartridge will seal about 120 linear feet of 3/16" x 3/16" concave bead.

#### SAFETY PRECAUTIONS

CSL190 releases small amounts of acetic acid during cure. Adequate ventilation should be provided with the 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 Safety Data Sheet available on this product.

This product is intended for use only by professional applicators in accordance with the advice given in this document, the Safety Data Sheet (SDS) and the container(s), and should not be used without reference to the SDS that CSL Silicones Inc. has provided to its customers. **KEEP OUT OF REACH OF CHILDREN.**

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards & regulations.

If in doubt regarding the suitability of use of this product, consult CSL Silicones Inc. for further advice.

#### STORAGE

CSL190 has a shelf life of 12 months from date of manufacture when stored in the original unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored below 90°F (32°C).

#### PACKAGING

CSL190 is available in 300mL (10.2 fl. oz.) cartridges, 19L (5 US gallon) pails, and 189L (50 US gallon) drums.



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## 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.

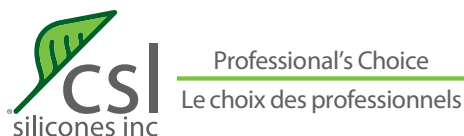
Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.

**CSL is ISO 9001:2008 Registered**

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### Disclaimer

*The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this document without first obtaining written confirmation from CSL Silicones Inc. as to the suitability of the product for the intended purpose does so at his/her own risk. The information contained herein has been prepared in good faith to comply with applicable federal and provincial (state) law(s). However, no warranty of any kind is given or implied and CSL Silicones Inc. will not be responsible for any damages, losses or injuries that may result from the use of any information contained herein. While CSL endeavors to ensure all advice it gives about the product (whether in this document or otherwise) is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless CSL specifically agrees in writing to do so, it does not accept any liability whatsoever or howsoever arising for the performance of the product, or for any consequential loss or damage arising out of the use of the product. Any warranty, if given or specific Terms & Conditions of Sale are contained in CSL's Terms & Conditions of Sale, a copy of which can be obtained upon request. The information contained herein is liable to modification from time-to-time in light of experience and CSL's policy of continuous product improvement. It is the user's responsibility to check that this document is current prior to using the product. This document must not be used for specification writing.*



**CSL Silicones Inc.**  
144 Woodlawn Rd. W.  
Guelph, ON N1H 1B5  
Canada

T +1 519.836.9044  
F +1 519.836.9069  
TF +1 800.265.2753

[www.cslsilicones.com](http://www.cslsilicones.com)

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