



Building & Construction

Silicone Sealant/Adhesives



Professional's Choice
Le choix des professionnels



CSL Building and Construction Silicones:

The Professional's Choice every time!



Why choose CSL 100% Silicone Sealants/Adhesives for Building and Construction?

CSL's outstanding portfolio of 100% Silicone Sealant/Adhesives cover a wide spectrum of building and construction applications such as high speed window manufacturing, high end kitchen cabinet manufacturing and installation, and concrete joint sealant.

CSL Building and Construction Silicone Sealants are one-part, moisture cure, RTV (room temperature vulcanizing), 100% silicone formulated for use on a variety of substrates such as concrete, glass, stone, many plastics and metals. They offer outstanding resistance to all weathering environments, freeze-thaw conditions and airborne chemicals. The usable temperature range is from -60°C to 200°C (-76°F to 392°F).

Features of CSL Silicones:

- Are UL Ecologo certified for reduced environmental impact.
- Enhance performance of building materials by providing long term adhesion, strength and exceptional flexibility.
- Safeguard the structural integrity of a building even in the most extreme climates.
- Remain flexible over a wide temperature range and can be easily applied in cold weather
- Has greater UV stability, temperature, and weather resistance than organic materials.
- Lasts longer than many other materials, reducing lifetime costs.

Benefits:

Flexibility, strength, performance, easy application & versatility

CSL Portfolio Highlights:

- Optically Clear Silicone Sealant/Adhesive
- General Contractor Silicone Sealant/Adhesive
- Glazing and Back Bedding Sealant/Adhesive
- High Strength Sealants
- Concrete Joint Sealants

Product	CSL160	CSL190	CSL302	CSL303	CSL339	CSL335A
	General Contractor Silicone Sealant			Glazing and Back Bedding Sealant/Adhesive		
Cure System	One part RTV/Acetoxy	One part RTV/Acetoxy	One part RTV/Acetoxy			
Specific Gravity	1.02	1.06	1.04	1.04	1.03	1.03
Extrusion Rate 3.2mm (1/8) orifice, 90 psi	200 g/min	250 g/min	400 g/min	300 g/min	300 g/min	150 g/min
Skin Over Time (min)	10 min	10 min	10-20 min	10-20 min	5-10 min	5-10 min
Tack Free Time (min)	N/A	N/A	N/A	N/A	N/A	N/A
Usable Temperature Range	-60°C to 200°C (-76°F to 392°F)	-60°C to 200°C (-76°F to 392°F)	-60°C to 200°C (-76°F to 392°F)			
Elongation at Break* ASTM D412	400%	500%	500%	400%	450%	400%
Tensile Strength* ASTM D412	200 psi (14.1 kg/cm ²)	300 psi (21.1 kg/cm ²)	200 psi (14.1 kg/cm ²)	200 psi (14.1 kg/cm ²)	200 psi (14.1 kg/cm ²)	250 psi (17.6 kg/cm ²)
Durometer/Hardness* ASTM D2240	25 points Shore A	27 points Shore A	18 points Shore A	21 points Shore A	20 points Shore A	27 points Shore A
Tear Resistance (ASTM D624, Die B)	30 ppi (5.3 kN/m)	30 ppi (5.3 kN/m)	27 ppi (4.7 kN/m)	25 ppi (4.4 kN/m)	22 ppi (3.9 kN/m)	28 ppi (4.9 kN/m)
Joint Movement Capability ASTM C719	+/- 25%	+/- 25%	+/- 50%	+/-25%	+/- 25%	+/- 25%
Standard Stocked Colors	Translucent, White, Clear	Optically Clear	Clear	Clear	Clear	Clear, White
Other Available Colours	Black, Bone, Beige, Aluminum, Almond, Dark Brown, Medium Brown, Grey, Linen, Brownstone	N/A	White, Black, Beige, Aluminum	White, Aluminum, Texaco Red	N/A	Black, Grey

Glazing and Backbedding Silicone Sealant/Adhesive

Glazing Silicone

CSL302

Developed for butt or lap shear joints and weatherproof glazing applications where there is significant movement. Can be applied to glass and metal in glazing and curtain wall assemblies to produce a primary or secondary seal against water, air and dust penetration.

Typical Uses:

- Glazing or installation of steel, aluminum, fiberglass and wood windows.
- Interior and exterior glass partitions and skylights
- General caulking of vents, window and door frames.
- Weatherstripping

Specifications: CSL302 meets ASTM C920, Federal Specifications TT-S-001543A and TT-S-00230C and CAN/CGSB-19, 13-M87.

General Purpose Window & Door Installation

CSL303

CSL303 is ideal as a glazing sealant where an extension/compression of up to +/-25% of the original joint width is desired.

Typical Uses:

- Installation of steel, aluminum, wood, fiberglass and vinyl windows
- Interior and exterior glass partitions and skylights
- General caulking of vents, window and door frames and weatherstripping. Can also be used for glazing windows and doors



Rapid Cure Glazing and Backbedding

CSL339

CSL339 is a rapid cure formulation specifically formulated as a glazing and backbedding sealant for high speed window and door manufacturing. May also be used for perimeter sealing of doors and windows and installation.

Typical Uses:

- Glazing and backbedding
- Installation of windows and doors
- Sealing of doors and windows

Specifications: CSL339 meets ASTM C920, Federal Specifications TT-S-001543A and TT-S-00230C and CAN/CGSB-19, 13-M87

High Performance Window and Door Manufacturing

CSL335A

CSL335A is a high performance sealant designed specifically for glazing and backbedding in manufacturing requiring high tensile strength and flexibility. Used in weatherproofing glazing applications subject to movement.

Can be applied to glass and metal in glazing and curtain wall assemblies to produce a primary or secondary seal against water, air and dust penetration.

Typical Uses:

- Glazing and installation of steel, aluminum, fiberglass and wood windows
- Interior and exterior glass partitions
- General caulking of vents, window and door frames
- Weatherstripping
- Skylights and curtain walls
- High performance sealing for buildings



Specifications: AAMA Certified 800-10 (802.3 - Type II and 805.2 Group

803.3 - Type I, 808.3). Meets ASTM C920, Federal Specifications TT-S-001543A and TT-S-00230C and CAN/CGSB-19, 13-M87.



Window and Door Manufacturing - Building Construction

CSL343

CSL343 is ideally suited for construction and installations where extreme movement is a design requirement.

Typical Uses:

- Expansion joints
- Concrete construction for curtain wall and precast concrete panel joints.
- Can be used for glazing and backbedding
- Can be used as a repair material for joints where other sealants have failed



Specifications: AAMA Certified 800-10 (802.3 - Type II and 805.2 Group 803.3 - Type I, 808.3). Meets ASTM C920, Federal Specifications TT-S-001543A and TT-S-00230C and CAN/CGSB-19, 13-M87.

Window and Door Manufacturing - High Extrusion

CSL344

CSL344 is formulated as a high extrusion sealant which cures to produce a low modulus silicone rubber seal.

Typical Uses:

- Expansion joints
- Concrete construction for curtain wall and precast concrete panel joints
- Can be used as a repair material for joints in where other sealants have failed because of excessive movement

Fast Cure Silicone Window Sealant

CSL345

CSL345 is a fast cure silicone window sealant that has been formulated to meet manufacturer's requirements for high speed window and door assembly.

Typical Uses:

- In-shop window fabrication as a bedding bead sealant
- Used as a perimeter weatherseal
- Window installations
- General purpose sealant



Fast Cure Self-Leveling Concrete Joint Sealant

CSL314

CSL314 is a fast cure, self-leveling silicone sealant that cures to a low durometer. It has high flexibility to maintain integrity on joints and will withstand joint movement of +100/-50%. It has excellent unprimed adhesion to concrete, steel and most other construction substrates.

Typical Uses:

- Ideally suited for concrete and as traffic loop sealant
- Crack filling
- Bridge expansion joint sealant
- Saw-cut control joint sealant

High Performance Ultra High Elongation Concrete Joint Sealant

CSL341

CSL341 non slump, high performance silicone sealant is specifically formulated for concrete joint applications. It has ultra-high elongation at 1000% yet remains very durable. With ultra high flexibility and a low modulus, it will withstand +/-50% joint movement. Suitable for DOT applications. It has excellent unprimed adhesion to concrete, steel and most other construction substrates.

Typical Uses:

- New and remedial concrete work
- Concrete highways, runways, bridges, shipping yards, parking garages and residential streets.



Concrete Joint Sealant

High Performance, Ultra High Elasticity Concrete Joint Sealant

CSL316

CSL316 is formulated for horizontal joints in concrete where extreme joint movement is experienced. Suitable for Department of Transportation applications. The ultra high elasticity has extreme flexibility and will withstand joint movement of +100/-50%. It exhibits excellent unprimed adhesion to concrete, steel and most other construction substrates.

Typical Uses:

- Construction and maintenance of highways, airport runways, industrial roadways and residential streets.
- New and remedial concrete work for traffic structures such as bridges, shipping yards or parking garages.

Self-Leveling Silicone Concrete Joint Sealant

CSL315

CSL315 is a low durometer, self-leveling silicone concrete joint sealant. It has excellent unprimed adhesion to concrete, steel and most other construction substrates. Has great flexibility and will withstand joint movement of +100/-50%. Suitable for Departments of Transportation (DOT) applications.

Typical Uses:

- Ideally suited for concrete and as traffic loop sealant
- Crack filling
- Bridge expansion joint sealant
- Saw-cut control joint sealant

Non-Slump Silicone Concrete Joint Sealant

CSL342

CSL342 is a non-slump silicone sealant that cures to a low durometer. It has good flexibility and a low modulus, so it will withstand +/-50% joint movement. Approved by many United States DOT applications. It has excellent unprimed adhesion to concrete, steel and most other construction substrates, provided they are clean, dry and free of dust and frost.

Typical Uses:

- Ideally suited for vertical and horizontal joints in concrete, as a traffic loop sealant, crack filling, bridge expansion and saw-cut control joint sealant.



Surface Preparation

All surfaces should be clean, dry, 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 will test for unprimed adhesion. If primer is required contact manufacturer.

Application

CSL Silicones Building and Construction silicone sealants are ready-to-use and require 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 5-60 minutes (depending on the product) 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 lengthened by the degree of confinement.

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

Safety Precautions

Some CSL products release small amounts of acetic acid during cure. Adequate ventilation should be provided with the extensive use of this or any 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.

This product is intended for use only by professional applicators in accordance with the advice given in this document, the Material Safety Data Sheet (MSDS) and the container(s), and should not be used without reference to the MSDS 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.

Packaging

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

Storage

Products have a typical shelf life of twelve 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 at or below 90°F (32°C).

Warranty

CSL guarantees the product to perform as per specification and be free from defect provided the product is applied as per CSL's instructions. CSL's liability, expressed or implied, is limited to the selling price of any defective product.

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.

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