



TYPICAL USES

- Window installation
- Expansion joints
- Concrete construction for curtain wall and precast concrete panel joints
- Glazing and backbedding
- Repair material for joints with excessive movement

PRODUCT DESCRIPTION

CSL 343 is a one-part, neutral cure, room temperature vulcanizing (RTV), 100% silicone sealant. It is ideally suited for window and door manufacturing where extreme joint movement is a design or specified requirement.

CSL 343 readily extrudes and cures to produce a low modulus silicone rubber building joint seal. The low modulus characteristic minimizes strain on the substrate surface and the good elasticity allows excellent recovery from compression and extension.

APPLICABLE STANDARDS

- AAMA Certified 802.3-16 Type II, 803.3-16 Type I, 805.2-16 Group C, 808.3-16
- 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
- Recognized under the Components Program of Underwriters Laboratories Inc. - UL File No. E109726: Plastics - Component (QMFZ2.E109726)
- **CSL 343** is EcoLogo Certified

PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Type	100% silicone, one-part RTV
Appearance	Smooth, non-slump paste
Temperature Range‡	
Application Temperature Range	Ambient to 50°C (120°F)
Useable Temperature Range	-60°C a 200°C (-76°F a 392°F)
Drying Time*	
Tooling/Skin-Over Time	5-10 minutes
Tack Free Time	30 minutes
Cure Time	24 hours
Full Physical Characteristics	7 days

PHYSICAL PROPERTIES

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

Uncured	
Specific Gravity	1.13
Extrusion Rate (3.2mm (1/8") orifice, 90 psi)	300 g/min
Cure System	Neutral (Oxime), Moisture Cure
Slump/Sag	Nil
Cured at standard conditions* for 7 days	
Durometer Hardness (ASTM D2240, Shore A)	20 points
Tensile Strength (ASTM D412)	180 psi (12.7 kg/cm ²)
Elongation at Break (ASTM D412)	500%
Tear Resistance (ASTM D624, Die B)	25 ppi (4.4 kN/m)
Joint Movement Capability	±50%

‡Please consult CSL for suitability for application at lower temperatures

*At standard conditions 77oF (25oC) and 50% relative humidity.

COLORS

CSL 343 is primarily available in off white. For special projects, custom color matching is available at an additional charge. Please contact CSL Silicones for assistance. Terms and conditions may apply.

SURFACE PREPARATION & CLEANLINESS

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

Prior to sealant application, all surfaces should be cleaned by wiping with an oil-free solvent.

For remedial work, be sure to remove all old caulking and oily residues. Lacquer coatings are best removed with lacquer thinners. Remove any old paint and solvent wash surface prior to caulking.

CSL 343 does not normally require a primer on common construction substrates. When in doubt, apply a test bead of sealant to substrate or sample and check adhesion.

APPLICATION

CSL 343 is ready to use and requires no mixing or additives. Curing begins as soon as the sealant is exposed to air.

At conditions of 25°C (77°F) and 50% relative humidity, a bead of sealant 3mm (1/8") will skin over within 5-10 minutes and fully cure in 24 hours, attaining full physical properties in 7 days. Tooling, if necessary, should be done before skinover takes place.

The use of a bond breaker prevents undesirable three-sided adhesion and reduces the amount of sealant required. If the joint is too shallow to allow for a foam rod, use a bond breaker tape. Use masking tape on areas adjacent to joints when porous surfaces make clean-up difficult or where it is necessary to obtain a neat sealant line. It is preferable that masking tape be applied prior to priming. Tool immediately after sealant is applied and before a "skin" begins to form and to surfaces that will be painted over.

Estimated Linear Footage Obtained per 10 x 300ml (10.2 fl. oz.) Cartridges

Joint Depth (in.)	Rectangular Bead Joint Width (in.)							Right Angle Concave Bead Joint Width (in.)			
	1/8	3/16	1/4	3/8	1/2	3/4	1	1/8	3/16	1/4	3/8
1/8	976	651	488	325	244	163	122	4550	-	-	-
3/16	651	434	325	217	163	108	81	-	2022	-	-
1/4	488	325	244	163	122	81	61	-	-	1137	-
3/8	325	217	163	108	81	54	41	-	-	-	506

Remove masking tape immediately after tooling is completed.

For standard expansion joints, a thin bead minimizes the stress of the bonding interface and will accommodate more movement than a thick bead. **CSL 343** should be no thinner than 3 mm (1/8"). In general, the depth of the sealant is recommended to be equal to one-half the joint width. The width of building expansion joints vary due to daily and seasonal changes in temperature and therefore these joints should be designed to accommodate anticipated movement with temperature changes. Please refer to the table on the following page for estimated footage information.

SAFETY PRECAUTIONS

CSL 343 uses a neutral cure system, so no acetic acid or objectionable byproducts 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 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

CSL 343, when stored in original, unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored below 32°C (90°F), has a shelf life of 12 months from date of manufacture.

PACKAGING

CSL 343 is available in 300 ml (10.2 fl. oz) cartridges, 18.9 L (5 US gallon) pails and 189L (50 US gallon) drums.

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.



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 from 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
TF + 1 800.265.2753
cslsilicones.com

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