



TYPICAL USES

- Designed to be used in extreme high temperature applications and maintain maximum performance, and remain permanently flexible
- Form-in-place gaskets in very high temperature applications
- Applications requiring high strength
- Superior resistance to oils used in mechanical and automotive systems
- Super adhesion and flexibility in extreme environments

PRODUCT DESCRIPTION

CSL523 is a one-part, moisture curing, room-temperature vulcanizing (RTV), 100% silicone sealant that cures to a tough rubber gasket that can be used in corrosion-sensitive applications. CSL523 is designed to maintain maximum performance and remain permanently flexible in a continuous temperature environment of 315°C (600°F) and intermittent exposure of extreme temperatures up to 371°C (700°F).

PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Type	100% silicone, one-part RTV
Appearance	Smooth, non-slump red paste
Temperature Range‡	
Application Temperature Range	Ambient to 50°C (120°F)
Useable Temperature Range	-60°C to 315°C (-76°F to 600°F); Intermittently up to 371°C (700°F)
Drying Time*	
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)

Uncured	
Specific Gravity	1.13
Extrusion Rate (3.2mm (1/8") orifice, 90psi)	350 g/min
Cure System	Neutral (Oxime), Moisture Cure
Cured At Standard Conditions* for 7 Days	
Durometer Hardness (ASTM D2240, Shore A)	36 points
Tensile Strength (ASTM D412)	462 psi (32.4 kg/cm ²)
Elongation at Break (ASTM D412)	400%
Tear Resistance (ASTM D624, Die B)	40 ppi (7.3 kN/m)

‡Please consult CSL for suitability for application at lower temperatures

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

COLORS

CSL523 is available in Red.

SURFACE PREPARATION

Provided that all bonding surfaces are clean and dry, and free of dust, dirt, and grease, CSL523 has excellent unprimed adhesion to most substrates. If contamination is present, surfaces should be wiped with oil-free solvents.

APPLICATION

CSL523 is ready to use and requires no mixing or additives. The cure mechanism 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 in 10 minutes and fully cure in 24 hours. For gasket applications, apply an even bead, to one surface, making certain to surround all bolt holes. Press parts together and torque normally.

SAFETY PRECAUTIONS

CSL523 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 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

CSL523, 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 6 months from date of manufacture.

PACKAGING

CSL523 is available in 300 ml (10.2 fl. oz.) cartridges, 19L (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.

CSL is ISO 9001:2008 Registered
CSL523 is EcoLogo Certified

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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