

CS 502A

Multi-Purpose Silicone Sealant/Adhesive

Technical Data Sheet

Industrial & Transportation



TYPICAL USES

- Multi-purpose industrial sealant or bond
- Form-in place gaskets for junction box covers
- Adhering appliance trim, sealing appliance parts, letters and signs
- Sealing joints in ductwork, truck trailers, cabs, marine portholes and cabins

PRODUCT DESCRIPTION

CSL502A is a one part, moisture curing, room-temperature vulcanizing (RTV), 100% silicone sealant for industrial applications. CSL502A is ideal for applications where high levels of protection, adhesion, elasticity and longevity are desired. CSL502A is suitable for use in meat and poultry plants. It provides long-term, permanently flexible bonding and sealing, as well as excellent adhesion to glass, metal, porcelain, ceramic, wood, most plastics and many other non-porous substrates.

APPLICABLE STANDARDS

- Recognized under the Components Program of Underwriters Laboratories Inc - UL File No. E109726:
 - Plastics - Component (QMFZ2.E109726)
 - Plastics Certified for Canada - Component (QMFZ8.E109726)
- Approved by US Department of Agriculture (USDA) for use in meat and poultry plants (CSL502A clear, white, and aluminum)
- Approved by Canadian Food Inspection Agency (CFIA) for use in meat and poultry plants (CSL502A clear, white, and aluminum)
- CSL502A 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 to 200°C (-76°F to 392°F)
Drying Time*	
Skin-Over Time	10-20 minutes
Cure Time	24 hours
Full Physical Characteristics	7 days

PHYSICAL PROPERTIES

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

Uncured	
Specific Gravity	1.02
Slump/Sag	Nil
Extrusion Rate (3.2mm (1.8") orifice, 90psi)	250 g/min
Cure System	Acetoxy, Moisture Cure

Cured At Standard Conditions* for 7 Days

Durometer Hardness (ASTM D2240, Shore A)	25 points
Tensile Strength (ASTM D412)	200 psi (14 kg/cm ²)
Elongation at Break (ASTM D412)	350%
Tear Resistance (ASTM D624, Die B)	27 ppi (4.7 kN/m)

†Please consult CSL for suitability for application at lower temperatures

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

COLORS

CSL502A is available in Clear, White and Aluminum. Other available colors: Black, Yellow and Grey.

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 consult CSL944 product sheet or contact manufacturer.

APPLICATION

CSL502A 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 within 10-20 minutes and fully cure in 24 hours, 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.

A 15-30 mil glue line gives best adhesion. For sealing, apply CSL502A into the joint so that full contact is made between sealant and surface.

SAFETY PRECAUTIONS

CSL502A releases small amounts of acetic acid 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

CSL502A, when stored in original, unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored at or below 32°C (90°F), has a shelf life of 15 months from date of manufacture.

PACKAGING

CSL502A 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

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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