

CSL 506T

Self-Leveling Electronic Silicone Sealant/Adhesive

FEATURES

- Neutral cure formulation
- Will not corrode copper, brass or silver
- Effectively fills small spaces

PRODUCT DESCRIPTION

CSL-506T is a one-part, RTV (Room Temperature Vulcanizing) electronic grade, self-leveling silicone sealant/adhesive. No acetic acid or other corrosive by-products are generated during its cure. CSL-506T can be used in corrosion-sensitive electronic equipment with no adverse effect.

CSL-506T is primarily used in applications where a flowable, self-leveling silicone sealant/adhesive is required to fill small spaces. Applications include potting electrical terminals and sealing electronic devices. Since CSL-506T is a 100% silicone sealant/adhesive, it resists weathering, moisture, vibration, ozone, ultra-violet rays and temperature extremes. It remains flexible from -62°C to 232°C (-80°F to 450°F).

INSTALLATION

CSL-506T is ready-to-use and requires no mixing or additives. The cure mechanism begins as soon as the sealant comes in contact with air. Uncured sealant will flow until a cured skin is formed

At 25°C (77°F) and 50% relative humidity, the sealant will “skin” within 15 to 25 minutes and fully cure in 24 hours. Higher humidity accelerates cure. Since no undesirable odors are released during cure, CSL-506T is ideal where applications must be done under confined conditions. Adequate ventilation should be provided with extensive use of this product. 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.

All surfaces should be clean and dry. It is recommended that bonding surfaces be wiped with a solvent such as naphtha. Do not use oil-containing solvents such as Varsol. Allow surface to dry thoroughly before applying sealant. Priming is normally not required for applications to most substrates. Applying a small trial flow and allowing 7 days for maximum adhesion to occur can readily test unprimed adhesion.

COLORS

The CSL-506T standard color is White.

PACKAGING

CSL-506T is available in 300 ml (10.2 fl. oz.) caulking cartridges packaged in cartons of 20 cartridges, 2.5 US gallon cans, 5 US gallon pails and 200 Litre drums.

STORAGE

CSL-506T when stored in original unopened container at or below 32°C (90°F) has a shelf life of 12 months from date of shipment.

SAFETY PRECAUTIONS

CSL-506T 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 Material Safety Data Sheet available on this product. **KEEP OUT OF REACH OF CHILDREN.**

UL® CLASSIFICATION

CSL-506T is recognized under the Components Program of Underwriters Laboratories Inc.®



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.

Typical Properties

These values are not intended for use in preparing specifications

UNCURED

Type	100% silicone, one-part RTV
Appearance	Smooth, thick liquid
Specific Gravity	1.00 - 1.02
Slump/Sag	Flowable
Viscosity at 25°C	50,000 ± 10,000 cP
Application Temperature Range	-18°C to 50°C (0°F to 120°F)
Cure System	Neutral, Moisture Cure
Skin-Over Time at Standard Conditions*	15 to 25 min.
Cure Time at Standard Conditions*	24 hr.

CURED AT STANDARD CONDITIONS* FOR 7 DAYS

Durometer Hardness (ASTM D2240, Shore A)	30 points
Tensile Strength (ASTM D412)	14.1 kg/cm ² (200 psi)
Elongation at Break (ASTM D412)	300%
Tear Resistance (ASTM D624, Die B)	3.6 kN/m (20 ppi)
Thermal Expansion Coefficient (0°C to 100°C /32°F to 212°F)	9.0 x 10 ⁻⁴ cm/°C
Useable Temperature Range	-62°C to 232°C (-80°F to 450°F)
Dielectric Strength (ASTM D149)	450 V/mil (177kV/cm)
Volume Resistivity (ASTM D257)	2.2 x 10 ¹⁵ ohm.cm
Dissipation Factor, 100 Hz to 100 kHz (ASTM D150)	0.0008
Dielectric Constant, 100 Hz to 100 kHz (ASTM D150)	2.71

*Standard Conditions are 25°C (77°F) and 50% relative humidity

ISO 9001:2008 Registered

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