ISO-9001 Registered

CSL SILICONES INC. quality research innovation

CSL-542 Technical Data Sheet

Low Viscosity Conformal Silicone Coating

1. PRODUCT NAME
CSL-542 Low Viscosity Conformal Silicone Coating

2. FEATURES
- Neutral cure formulation
- Low viscosity
- Non-corrosive to metals in electronic/ electrical equipment
- Coating can be applied by spray, flow and brush techniques

3. APPLICATION
CSL-542 is a neutral cure system which is non- corrosive to metals used in electronic/ electrical equipment such as copper, brass, silver and gold. It will cure at room temperature by reaction to moisture. A 1/16" (1.6 mm) coating will be tack-free in about 40 minutes with full cure taking place in 24 hours. Higher humidity and temperature will result in a faster cure.

CSL-542 can be removed by soaking in solvent such as toluene, xylene or chlorinated solvents for 10 to 20 minutes followed by brushing and washing.

4. PACKAGING
CSL-542 is available in 1L cans, 3.8L (1 US gallon) cans and 19L (5 US gallon) pails.

5. STORAGE
CSL-542 when stored in original unopened container at or below 32°C (90°F) has a one year shelf life from the date of manufacture. Most products however, will last longer if stored in cool dry conditions.

6. SAFETY PRECAUTIONS
CSL-541 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.

Typical Properties
These values are not intended for use in preparing specifications

Uncured	
Type	100% silicone, one-part RTV
Appearance	Smooth, pourable liquid
Specific Gravity	0.98
Application Temperature Range	-16°C to 50°C (3°F to 120°F)
Cure System	Neutral, Moisture Cure
Skin-Over Time at Standard Conditions*	10 - 15 min.
Cure Time at Standard Conditions*	1 hr. @ 10 mil
Tack Free Time at Standard Conditions*	40 min.
Viscosity	3,000 ± 1,000 cP
Cured	At Standard Conditions* for 7 Days
Thermal Expansion Coefficient (0°C to 100°C / 32°F to 212°F)	9.3×10^{-4} cm/°C
Useable Temperature Range	-60°C to 200°C (-76°F to 392°F)
Dielectric Strength (ASTM D149)	420 V/mil (165kV/cm)
Volume Resistivity (ASTM D257)	2.62 ohm.cm
Dissipation Factor, 100 Hz to 100 kHz (ASTM D150)	0.0006
Dielectric Constant, 100 Hz to 100 kHz (ASTM D150)	2.60

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

7. 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.

Head Office
144 Woodlawn Rd. W., Guelph, ON, Canada, N1H 1B5
Tel: 519-836-9044 Fax: 519-836-9069

Toronto Office
365 Evans Ave., Suite 304, Toronto, ON, Canada, M8Z 1B6
Tel: 416-255-1189 Fax: 416-255-1180
www.cslsilicones.com

Printed in Canada

CSL Silicones Inc.
Guelph, ON, Canada
N1H 1B5

Contact CSL Silicones Inc. Head Office for the distributor nearest you.