

Technical Data Sheet

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Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Clearcote DCA Modified Silicone Conformal Coating

PART NUMBER	AVAILABLE SIZE*
CT-DCA-200	200ml (175g) Aerosol
CT-DCA-400	400g Aerosol
CT-DCA-500ML	500ml
CT-DCA-1L	1 Litre
CT-DCA-5L	5 Litres

*Available sizes may change without notice.

DESCRIPTION

Clearcote DCA Modified Silicone Conformal Coating is an ultra-clear vibration resistant flexible coating with high dielectric strength and thermal resistance to 200°C. It protects from corrosive environments, high humidity, and airborne contamination, including dirt, dust, and fungal growth, also protecting circuits from moisture formed by high temperatures. Its glossy, tack-free film is ideal for applications requiring extreme flexibility.

Modified Silicone Conformal Coating contains a UV trace which glows under UV light to confirm coverage across the entire surface area.

APPLICATION

For optimum results and satisfactory adhesion, the material to be coated should be completely clean, dry, and dust free prior to coating. It is recommended that flux residues are removed as some may be corrosive if left on the PCB.

Contact your solder supplier to determine compatibility.

The final thickness of the coating is dependent upon the application method. Check compatibility of the plastics that will be in contact with this coating prior to use. Ensure switches, contacts, etc, are masked prior to application.

Aerosol: Shake well prior to use. To ensure an even coating, hold the aerosol 200mm away from the surface at an angle of 45°. Begin spraying just before moving over the substrate, and continue in a smooth motion until just after moving off the substrate. Use short overlapping strokes. Rotate the substrate by 90°, then re-spray to ensure complete coverage. After spraying, place in a dust free, air circulating drying cabinet until completely dry.

Dip: Using a suitable container, immerse the substrate completely for a few seconds, and then withdraw slowly to ensure a complete and even coating. Allow to drain, and then place in a dust free air circulating drying cabinet until dry.

Brush: Using a clean, dry brush, apply the conformal coating with smooth even strokes. Vigorous brushing should be avoided as it will lead to air bubbles. When completed, place in a dust free air circulating drying cabinet until dry.

Note: DCA may be thinned to suit particular applications by the addition of a compatible conformal coating thinner.

TECHNICAL DATA

Physical Properties

Composition	Modified Silicone
Colour	Clear

Application Conditions

Temperature	10°C to 32°C
Relative Humidity	40 - 50%

Drying and Coating

Tack Free Time	Approx. 5 minutes @ 25°C
Drying Time	15 – 30 minutes
Full Cure	24 hours

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Cured Properties

Appearance	Ultra clear flexible glossy film
Operating Temperature Range	-70 to +200°C
Moisture Resistance	Meets IPC-CC-830
Dielectric Strength	90kV/mm
Dielectric Constant	3.90 @ 1 MHz
Insulation Resistance	1 x 10 ¹⁵ ohm

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Containers should be secured and stored upright during transit.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.