

# TECHNICAL DATA SHEET

Product No. 2043



ACN 000 725 833

## CRC Industries (Aust) Pty. Limited

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### I. Product Description

**CRC Plasticote 70** is a clear protective lacquer, that is the Universal Protective Film for printed circuit boards. **CRC Plasticote 70** is formulated to protect printed circuit boards against creepage and short circuits. The transparent acrylic insulating film is resistant to diluted acids, alkalies, alcohol and humidity. **CRC Plasticote 70** resists high temperatures, is drip proof and can be soldered through.

### II. Applications

Recommended for:

- ❑ Protecting components from condensation and moisture
- ❑ Printed circuit board, to protect against creepage.
- ❑ Insulates cables and wires
- ❑ Coating terminal strips, screw connections, and switch boxes that are exposed to atmospheric effects.
- ❑ In televisions to eliminate corona discharge phenomena from high voltage transformers and to prevent tracking at line transformers, etc.
- ❑ Protects maps, charts, legal documents, technical drawings, architectural plans, scripts and other flexible items.
- ❑ Aerial protection against atmospheric corrosion for VHF, TV and Radio Aerials.
- ❑ Marine radio and other components – protects against salt water corrosion.

### III. Features & Benefits

- ❑ **Humidity and Salt Spray Resistant.** Provides heavy corrosion protection to preserve and lengthen useful life of equipment.
- ❑ **Long-Term Indoor/Outdoor Protection.** Protects for up to 2 years for long term storage of parts, equipment and machinery. Offers up to 2 years protection to electrical connections etc.
- ❑ **Resists High Temperatures.** Endurance Thermal Stability – 100<sup>0</sup>C, Temporary Thermal Stability – 120<sup>0</sup>C, Low Temperature Stability – minus 70<sup>0</sup>C, is drip proof and can be soldered through.
- ❑ **UV Indicator.** The use of an Ultra Violet light instantly allows you to see any areas without any Plasticote 70 protection.

### IV. Physical Properties without propellant

<b>Flash Point</b>	10 <sup>0</sup> C T.C.C.	<b>Boiling Point</b>	80 <sup>0</sup> C Initial
<b>Odour</b>	Of organic solvent	<b>% Volatile</b>	86%
<b>Appearance</b>	Colourless film	<b>Specific Gravity</b>	0.09
<b>Dielectric Constant</b>	2.55 at 100kHz	<b>Volume Resistance</b>	10 <sup>14</sup>
<b>Surface Resistance</b>	3 x 10 <sup>13</sup> DIN 53482		
<b>Viscosity</b>	13s (Ford Cup)	<b>Propellant</b>	Hydrocarbon

## V. Specification and Approvals

- **Plasticote 70** complies with IPC-CC-830 for Hydrolytic Stability of Class 1 Conformal Coating.

Resistant to 98% humidity for 96 hours at 60C.

- **Plasticote 70** has been tested to ASTM B117 for Salt Spray Resistance.

Resistant to salt spray for 96 hours.

## VI. Performance Characteristics

<b>Type of Film</b>	Drying time = approx 1 hour
<b>A Thickness of Three Coats</b>	Dielectric resistance of 16kV
<b>Breakdown Voltage</b>	20 kV/mm
<b>Creep Resistance</b>	600V (DIN IEC112/VDE 0303 Part 1)
<b>Endurance Thermal Stability</b>	100 <sup>0</sup> C
<b>Temporary Thermal Stability</b>	120 <sup>0</sup> C
<b>Low Temperature Stability</b>	Minus 70 <sup>0</sup> C
<b>Corrosion resistance</b>	Up to 2 years outdoors

## VII. Directions

- Shake well before and during use.
- De-energise; **DO NOT** use on energised equipment
- Mask area not to be sprayed.
- Best results are obtained when sprayed above 15<sup>0</sup>C. Spray from a distance of 30 to 45cm in light, even coats.
- Additional coats for additional protection may be applied after each coat dries.
- Allow 30 minutes drying between coats to facilitate build up.
- When finished spraying, clean valve by turning can upside down and pressing actuator until only propellant escapes.

## VIII. Disposal

Disposal requirements vary by state and local regulations. All used and unused product should be disposed of in conformance with local, state and commonwealth laws and regulations.

## IX. Special Use Warnings

### Aerosol Cans

Do not puncture, incinerate or store above 50<sup>0</sup>C. Exposure to high temperatures may cause can to burst. Do not place in direct sunlight or near any heat source. Aerosol cans will conduct electricity. Keep away from all live electrical sources including battery terminals, solenoids, electrical panels and other electronic components. Failure to observe this warning may result in serious injury from flash fire and/or electrical shock.

**General**

Use only in well ventilated area. Ventilation may be improved by opening a window or door or providing mechanical assistance. Avoid continuous breathing of vapour and spray mist. Avoid contact with the skin and eyes. If ventilation is not adequate, respiratory protection should be worn. For more information regarding short term and long term exposure, review this product's Material Safety Data Sheet.

**PRODUCT WARRANTY:** CRC offers a conditional warranty on this product for the period of 2 years from the date of manufacture.

**DISCLAIMER:** All information on this data sheet is based on testing by CRC Industries (Aust.) Pty. Ltd. All products should be tested for suitability on a particular application prior to actual use. CRC Industries (Aust.) Pty. Ltd. makes no representations or warranties of any kind concerning this data.