

# TECHNICAL DATA SHEET

Product No. 2044 & 2049



## CRC Industries (Aust) Pty Ltd

### I. Product Description

**CRC Urethane Seal Coats** are an excellent adhering one-component polyurethane coatings. Its abrasive resistant insulation acts as a protective film, for electrical and electronic applications. **CRC Urethane Seal Coats** are stable single component polyurethane coating that dries fast, adheres well and forms a hard, durable, flexible and non-conductive film.

### II. Applications

Recommended for:

- ❑ Protecting components from condensation and moisture
- ❑ Protecting printed circuit boards.
- ❑ Insulates cables and wires
- ❑ Coating terminal strips, screw connections, and switch boxes that are exposed to atmospheric effects.
- ❑ Coating for Electric motor windings, armature coils, commutator ends, transformer ends.
- ❑ Coating for housings and bus bars.
- ❑ Protective coating for tools.

### III. Features & Benefits

- ❑ **Clear or Red.** Available in two conformal colours.
- ❑ **Humidity and Salt Spray Resistant.** Provides heavy corrosion protection to preserve and lengthen useful life of equipment.
- ❑ **Protection.** Offers protective resistance to shocks, abrasion and aggressive chemicals atmospheres.
- ❑ **High Dielectric Strength,** and a high surface and volume resistivity which, when combined with a low dielectric constant and dissipation factor, are necessary for successful electrical and electronic applications.

### IV. Physical Properties without propellant

<b>Flash Point</b>	43°C Open Cup	<b>Boiling Point</b>	800C Initial
<b>Odour</b>	Of organic solvent	<b>% Volatile</b>	86%
<b>Appearance</b>	Colourless or Red film	<b>Specific Gravity</b>	0.86 ± 0.02
<b>Dielectric Constant</b>	4.04 at 60Hz	<b>Volume Resistance</b>	8.4 @ 10 ohms/cm
<b>Surface Resistance</b>	1.2 @ 10 ohms/cm		
<b>Viscosity</b>	13s (Ford Cup)	<b>Propellant</b>	Hydrocarbon

### V. Specification and Approvals

## 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 5 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.