



CRC Industries NZ
Auckland NZ

I. Product Description

CRC Clear Urethane Seal Coat provides a stable single component polyurethane coating for electrical and electronic applications. It dries fast, adheres well and forms a hard, durable, flexible and non conductive film for electrical motor windings and armature coils.

Due to chemical cross linking reactions occurring after the drying stage, CRC Clear Urethane Seal Coat seals out water and moisture and is resistant to shock, abrasion, salt air and aggressive chemical atmospheres. There is no mixing, no clean up, no excessive waste. It is easy to apply and saves time and labour.

The clear coloration allows for visual inspection and is ideal when a see-through coating is required. The red coloration allows for easy visualisation and proof of application build.

II. Features & Benefits

- **Ready to use** – No additional mixing or chemical additives required. No clean up.
- **High di-electric strength** – Ideal for electrical/electronics applications
- **Environmental and mechanical protection** – Significantly extends product life
- **Wide Temperature Range** – Up to 100°C
- **Fast drying** – 15-30 minutes to handle, full cure in 72 hours
- **Aerosol** – Easy application, no clean up required
- **Corrosion Resistance** – Up to 2 years outdoors
- **USDA Authorised for use in Federally inspected Meat and Poultry Plants**
- **NSN 5970-01-101-7019 (Clear), NSN 5970-01-017-5738 (Red)**

III. Application and Directions

1. Clean surface thoroughly. Use CRC Lectra Clean.
2. Mask area to be sprayed.
3. Shake well until agitator ball is free. Repeat while using.
4. Best results are obtained when sprayed above 16°C.
5. Additional coats for heavy film should be applied within 48 hours of each other.
6. For clean-up, use methylene chloride, or other chlorinated solvents.
7. When finished spraying, clean valve by turning upside down and pressing button until only pressure escapes. If clogging occurs, remove button, clean slot and orifice with fine wire.

IV. Typical Properties and Characteristics

Physical Properties:

Appearance	Clear / red liquid
Odour	Faint aromatic
Propellant	Hydrocarbon (red), LPG (clear)
Flash Point (Open Cup)	43°C
Specific Gravity (20°C)	0.86 ± 0.02
Viscosity (25°C)	50cps
Elongation	10%
Dielectric Strength (ASTM D877) (Red)	2,000 Volts/mil
Dielectric Strength – film (ASTM D-149-09) (Clear)	1,300 Volts/mil
Volume Resisitivity	8.4 at 10ohms/cm
Surface Resisitivity	1.2 at 10ohms/cm
Adhesion (Bell Laboratory Test)	Exceeds 10,000g



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Technical Data Sheet – 2044 CRC Clear / Red Urethane Seal Coat

Performance Characteristics:

Touch Dry	30 minutes
Full Cure	12 hours
Time to Recoat	Within 40 minutes / after 12 hours
Average film thickness	Passes ASTM D115
Oil Resistance	Passes ASTM D115
Temperature Resistance	≤100 °C
Corrosion Resistance	Up to 2 years outdoors
Theoretical Coverage	2 m ² /can
Clean up with	Methylene chloride or other chlorinated solvents

V. Package Description

Part Number	Size	
2044	300g Aerosol	Red
2049	300g Aerosol	Clear

VI. Special Precautions

General:

Extremely flammable aerosol. Keep away from naked flames, electrical appliances/lights, lighted cigarettes, etc. Do not spray on an open flame or other ignition source. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Use with adequate ventilation. Store in a cool, well-ventilated area. Dispose of empty containers safely. All unused product should be disposed of in conformance with local and HSNO regulations, do not contaminate water supply.

Aerosol Cans:

Do not puncture, incinerate or store above 50 °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.

First Aid:

Swallowed – Avoid giving milk, oils or alcohol. Not considered a normal route of entry.

Skin – Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.

Eyes – Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay.

Inhaled – Remove to fresh air. Lay patient down. Keep warm and rested.

Refer to Material Safety Data Sheet for more details.

TECHNICAL DATA SHEET Version 02/2012

PRODUCT WARRANTY: CRC offers a conditional warranty of 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 NZ. All products should be tested for suitability on a particular application prior to actual use. CRC Industries makes no representations or warranties of any kind concerning this data.