

**RUST-X USA**



**Technical Datasheet**

Product: RUST-X Conformal Coating  
Protective Coating For PCB'S

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### Product Description

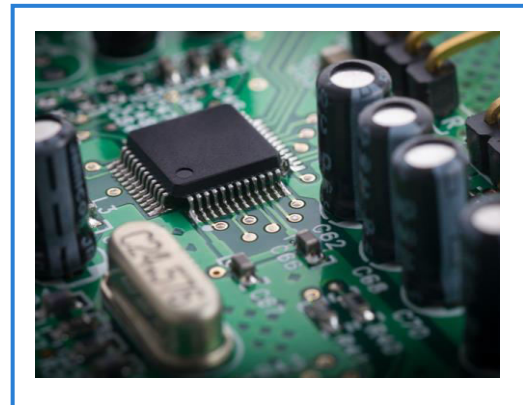
Many of the metallic parts, components, and finished machines produced by the manufacturing industries may have bare metal surfaces which require to be protected until brought into use, or receive interstate protection prior to further assembly or processing. They may be finished metallic parts, which need to receive some form of protection from corrosion during shipping or storage, or they may require some form of protection from corrosion whilst in use.

RUST-X range of sprays provide rust prevention with highly effective corrosion protection properties protecting against elements such as moisture, salt water rust and other corrosive media.

RUST-X Conformal coating is a single component, fast drying, easily repairable solvent based silicone coating for printed circuit boards and electrical equipment. The material provides protection of printed circuit boards, electronic components, thick-film circuits and other substrates. It dries at room temperature within 8 minutes of application and cures to a tough and flexible coating. This product is typically used in applications with an operating range of -40 °C to +125 °C.

RUST-X Spray has a long-lasting resistance to weathering and to chemicals. It is very easy to polish. Clear Coat has a very smooth flow. It is especially used for larger surfaces (Bike & car parts).

### Product & Application Images



### Suitable For

Conformal Coating to protect electronic circuits against rough environment that may contain moisture and other chemicals.

## Features

- Protection against environmental attack due to extreme weather conditions, dust & dirt contamination, humidity and moisture.
- Excellent insulation properties.
- Good adhesion to a wide variety of substrates.
- Little risk of corrosion to sensitive metals.
- Resistant to UV, Ozone and Moisture, many chemicals, mild acids and alkali.
- Resistant to extreme high and low temperature, : -30 °C to 200 °C
- Tested and approved by ITI (and CACT/CDOT) for compliance to MIL I- 46058c.

## Application Method

- Ensure the surface to be treated is free from dust, dirt, oil and grease.
- Shake the can well till balls are heard, moving freely inside the can.
- Spray an even coating on the surface and allow to dry for 30 minutes. Spray the second coat so that the substrate is coated uniformly.
- Spray from a distance of 15-30 cm
- For best results apply thin even film
- Use in well ventilated condition
- Check on small area of the part before using
- Replace the cap after use

## Properties

Physical Properties	Value
Color	Clear, transparent film
Coating thickness	2 coats > 40 microns
Tack Free Time, Air circulated oven at 80 °C	min < 30
Surface Resistivity	@ 20°C > 10 13Ω
Cure Time, RT, Hrs.	24
Curing Conditions	2 hrs @ 76°C
Insulation Resistance, ohms	7 x 10 <sup>13</sup>
Dielectric strength	> 80 kV/mm
Volume Resistivity (Ohms-cm)	2.1 x 10 <sup>16</sup>
Moisture Resistance, Meg ohms	9 x 10 <sup>5</sup>
Filled Can pressure, psig, 53±3°C	50-85
Spray rate, g/min, 53±3°C	60-90

## Precaution during storage & use

Store in a cool, dry place below 50 °C. The Can should normally be used within twelve months from date of manufacture. Most Cans will perform normally even after extended storage but prolonged storage may affect the contents.

Contents are highly flammable and should be kept away from sources of heat and ignition. Do not spray on flame or ignited materials. The contents may not be compatible with certain plastic or painted surfaces and should be tested before full-scale use.

The Cans are pressurized and should not be punctured, incinerated or exposed to severe damage. This may cause the can to burst violently.

Use in a well-ventilated area and avoid excessive inhalation, eye or skin contact. Keep away from children.

Best before 12 months from date of manufacture.

# RUST-X USA

## Your Global Corrosion Prevention

### Packaging

300 gm per bottle

### Disposal

Aerosol Cans are designed for single use only and are hazardous even when apparently empty. The cans must be completely evacuated by pressing the valve so that negligible gas remains inside and then must be punctured to release the remaining gas vapor. This shall render the can to be non-hazardous and fit for disposal as per local environmental norms.

### Safety Information

RUST-X Rust Preventive Oils do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the re-stricted substances listed in Article 4(1) of the RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.

### Declaration

The information and data contained in this datasheet is believed to be reliable. It is advised that the user/ buyer should independently conduct tests and trials and establish usefulness prior to commercialization. No warranty or guarantee is expressed or implied for the usefulness of the product for any application whatsoever.

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