



ConinsPune



Global Quality Through Indigenous Technology



ISO 9001-2008 • C-DOT APPROVED • MIL STANDARD MIL-I-46058-C TYPE AR • ROHS COMPLIANCES



Conins products can be applied on

- PCB assemblies;
solder side and mounting side
- UPS systems
- Energy meters
- LED lighting, scrolling displays
- Electrical home appliances
- Distribution boxes
- Any metal surfaces
- Electrical bus bars
- Computers
- Electronic products
- Welding machines/Hand drilling electronics
- Solar Panels
- Marine/Defence electronics

**PROTECTS PCB ASSEMBLIES FROM
CORROSION, CONDUCTIVE DUST, MOISTURE, OXIDATION
AND HIGH HUMIDITY.**

CONINS ACRYLCOAT AR-30/LQ-30/LQ-60//LQ-100 CONFORMAL COATING FOR PCB ASSEMBLIES

Conins Acrylcoat AR-30/LQ-30/LQ-60//LQ-100 is a range of high quality, flexible, transparent and eco-friendly acrylic conformal coatings for PCB assemblies, which are inevitable and Delicate Components in electronics and electrical.

PCB assemblies can be damaged in harsh conditions and result in failure of the electronics to function. Conins Acrylcoat provides the right protection for the PCB assemblies.

- AR-30 is an aerosol (spray can)
- LQ-30/LQ-60/LQ-100 is a range of lacquer products with different viscosities.



Salient Features

- ❶ 100% eco-friendly.
- ❷ Easy to apply, fast drying, fast curing.
- ❸ Provides excellent adhesion to all surfaces.
- ❹ Easily solder-able; thus components can be easily serviced.
- ❺ Good dielectric strength; hence provides protection against high voltage and corona shorts.
- ❻ Contains UV tracer for easy inspection
- ❼ Rohs compliances

- Application Methods:**
- AR-30: Spraying method
 - LQ-30/LQ-60/LQ-100: Brushing and Dipping method

1 Spraying Method

This method is widely used for applying conformal coating to PCB assemblies. It is suitable only for our product, Conins Acrylcoat AR-30, Which is available in easy to use a Aerosol can.

1. Hold the aerosol can in a slightly tilted position, at about 3 to 6 inches from the PCB assembly.
2. Push the spray button on the can gently, to spray the aerosol.
3. Move your hand evenly and quickly, across the width or length of the PCB assembly, to spray single coat of aerosol,
4. Leave the component to dry in a well-ventilated area.

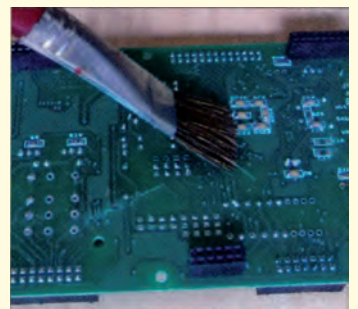
Important: Perform the spray coating under an exhaust hood or near open window. This pulls out fumes and fine mist from the aerosol.



2 Brushing Method

This method is the easiest & most economical method for applying the conformal coatings. It is better suited for batch production & service applications. Brushing method ensures uniform application of coating and the thickness depends upon the application. Our products can be provided in cans.

1. Dip the application brush in the can.
2. Apply the conformal coating evenly on the PCB assembly or component.
3. Leave the component to dry in a well-ventilated area.



3 Dispensing Pump Method

This method can be used when the quantity of PCB assemblies is more. Application can be done with the help of compressed air with 0.5 kg or 1 kg air pressure. Spraying can be done with help of a spray gun with adjustable spraying angles. By using this method, you can apply conformal coating of any viscosity to the component as per its needs.

Features of the Dispensing Pump method

1. Dispensing pump tank is available in 5 liters and 10 liters capacity.
2. Dispensing pump is available with easy to use Spray Gun.
3. Minimum wastage, More coverage area.
4. For spraying, no gas required. Spraying is done only using air. Hence, it is safe to apply.
5. Eco-friendly method as empty spray bottles need not be thrown away as waste.



4 Dipping Method

This method is most suitable for small production or assembly units or shops.

1. Dip the PCB component in the dip tank containing conformal coating.
2. Withdraw the component slowly at a uniform rate.
3. Leave the component to dry in a well-ventilated area.

CONINS ACRYLCOAT LGT-SPL-60 CONFORMAL COATING FOR LED LIGHTING

In today's changing world, LED lights are used in offices, corridors, street lights, parking zones industries and even decorative home lighting. These lights are continuously exposed to changing atmospheric conditions, and need to be protected for efficient and long term use. Conins Acrylcoat LGT-SPL-60 is the perfect solution.



Salient Features

- Protects LED lighting from high humidity, salty weather, conductive dust, oxidation, corrosion, rusting and fungus etc.
- Provides transparent hard film coating on the surface of LED lights and circuits.
- Improves the functioning of LED lights without many failures.
- Works as a heat sink paint or coating, and saves extra workmanship and cost.
- Does not affect the luminosity of LED lights.
- Works best in operating temperatures ranging from -40 Deg. C to +130 Deg. C.
- Minimizes service calls and repairs; hence reduces service/repair overheads for the end users and manufacturers.

Applications : Brushing or Dispensing pump method



CONINS ACRYLCOAT LGT-SPL-60 CONFORMAL COATING FOR SOLAR CELLS

Today, solar panels are used widely for water heating and lightning in housing societies, hospitals, hotels etc. Solar panels are subjected to heat, rain, wind and constantly changing weather conditions. They need to be protected for longer life and better functioning. Conins Acrylcoat LGT-SPL-60 can be applied on solar cells to protect from all types of weather conditions.



LGT-SPL-60 for LED Lighting

In today's changing world, LED lights are used in offices, corridors, street lights, parking zones and even decorative home lighting. These lights are continuously exposed to changing atmospheric conditions, and need to be protected for efficient and long term use, Conins Acrylcoat LGT-SPL-60 is the right solution,

Salient Features

- Transparent, hence does not affect solar rays and charging capacity of solar panels.
- Can be applied directly on the surface of solar cells, protecting the panel from dew and dust deposition.
- Withstands temperatures from -40 Deg. C to +130 Deg. C.

Application : Brushing or Dispensing pump method



Storage

- Conins products can be best stored in a cool dry place below 40 degrees C.
- Keep the products away from naked flame or flammable material.
- Destroy the container after use, using proper industrial wastage disposal methods.

Important: Perform the spray coating under an exhaust hood or near open window. This pulls out fumes and fine mist from the aerosol.

Precautions

- Conins products are flammable (Film after coating when dry is NOT flammable), Read the storage instructions for proper storage methods.
- Avoid contact with skin or eyes. In case of contact, wash affected areas with soap and plenty of water. Seek medical help in case of prolonged symptoms.
- Avoid inhalation, Use the product in a well-ventilated area with exhaust fan.
- Keep away from open flame or flammable material.
- While using Conins' products, place the components near window and keep the exhaust fan on.

CONINS ACRYLCOAT SKR-70 CONFORMAL COATING AS ENCAPSULATION AND AUTOMOBILE ELECTRONICS

ConinsAcrylcoat SKR-70, is a high quality, flexible, transparent, eco-friendly, acrylic conformal coating for PCB Assemblies in automobile electronics. It is used when higher coating thickness is required, for better protection against vibrations and water.

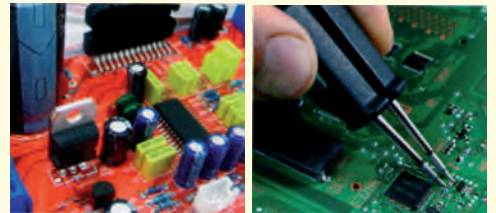
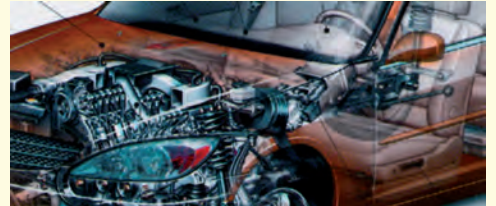


Salient Features

- Ensures protection for PCBs and other electronic components against moisture, oxidation and fungus in extremely humid conditions.
- Has high dielectric strength; hence provides protection against high voltage arcing and corona shorts.
- Suitable for vibrating and water application.

Application Method

1. Apply Conins Acrylcoat SKR-70 using brushing and dipping methods.
2. Then cure the component in an oven at 50 Deg. C to 60 Deg. C for 60 minutes.
3. If more coating is required, repeat the procedure of coating and curing, Conins Acrylcoat SKR-70 can be used as an epoxy, as per the technical specifications.



CONINS ELCLEAN

Conins ELCLEAN is a specially formulated universal cleaner and degreaser which can be used for cleaning of PCBs after soldering and assembly. This product is eco-friendly and contains no CFC or HFC.

Important:

ELCLEAN is flammable and all precautions for hazardous and flammable products should be taken while using the product. Usage and disposal of waste should be strictly in accordance with relevant government regulations. MSDS information will be provided on request.

Application Method (specific for this product)

1. Apply Conins ELCLEAN using brushing or spraying method.
2. Wipe with cotton, brush or a clean cloth.
Residue evaporates by itself.



CONINS ELCOAT

ConinsElcoat is designed for the electrical applications, such as electrical distribution boxes, bus bars, electric panels, automobile stator assemblies etc. It can also be applied to any metal surface for protection and insulation.

Salient Features

- Protects the electrical components from short circuit and arcing due to environmental conditions.
- Protects components from high humidity, conductive dust, oxidation, fungus etc.
- Prevents short circuits which happen due to small animals like rats/lizards entering in the distribution boxes.
- Can be air-dried. Becomes hard when dry.
- It is not easily removable and withstands operating temperatures in the range of -30 Deg. C to +130 Deg. C.
- Dielectric strength of 25 kv/mm.
- Conins ELCOAT is available in transparent and Red, Yellow and Blue colors.

Application Method

1. Apply Conins ELCOAT using brushing or dipping method.
2. Then cure the component in an oven at 50 Deg. C to 60 Deg. C for 30 minutes.

TECHNICAL DATA	AR-30	ALQ-30	ALQ-60	ALQ-100	SKR-70	LED-LGT-SPL-60	ELCOAT-EL-30
Appearance (Liquid and Coated Dry Film)	Clear, Transparent	Clear, Transparent	Clear, Transparent	Clear, Transparent	Clear, Transparent	Clear, Transparent	Pale Yellow, Transparent
Specific Gravity (Density@25 Deg)	0.914	0.914	0.916	0.919	0.927	0.916	0.92
Viscosity (@25 Deg)	30 Sec Zahn Cup	30 Sec Zahn Cup	60 Sec Zahn Cup	100 Sec Zahn Cup	280 Sec Zahn Cup	60 Sec Zahn Cup	30 Sec Zahn Cup
Flash Point	<40	<40	<40	<40	<40	<40	<40
CTI Value	600	600	600	600	600	600	600
Coating Thickness (Single Coat)	15-20 Micron	15-20 Micron	30-35 Micron	45-50 Micron	150-170 Micron	30-35 Micron	20 Micron
Dielectric Strength	15 KV/MM	15 KV/MM	15 KV/MM	15 KV/MM	15 KV/MM	15 KV/MM	25 KV/MM
Thermal Cycling (MIL-I-46058C-AR)	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	-
Moisture Resistance (MIL-I-46058C-AR)	1.5 x 10 ¹² Ohms	1.5 x 10 ¹² Ohms	1.5 x 10 ¹² Ohms	1.5 x 10 ¹² Ohms	1.5 x 10 ¹² Ohms	1.5 x 10 ¹² Ohms	1.5 x 10 ¹² Ohms
Insulation Resistance	3.5 x 10 ¹² Ohms	3.5 x 10 ¹² Ohms	3.5 x 10 ¹² Ohms	3.5 x 10 ¹² Ohms	3.5 x 10 ¹² Ohms	3.5 x 10 ¹² Ohms	3.5 x 10 ¹² Ohms
Fungus Resistance	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	AS PER MIL Std.	-
Withstand Temperature (Film)	-40 to +130 Deg C	-40 to +130 Deg C	-40 to +130 Deg C	-40 to +130 Deg C	-40 to +130 Deg C	-40 to +130 Deg C	-40 to +130 Deg C
Coverage Area (20 um Film)	2m2	6-7 m2 (Appx)	5-6 m2 (Appx)	4-5 m2 (Appx)	3-4 m2 (Appx)	5-6 m2 (Appx)	6-7 m2 (Appx)
Film Traceable	Under UV Lamp	Under UV Lamp	Under UV Lamp	Under UV Lamp	Under UV Lamp	Under UV Lamp	Visually
Drying Time (Touch to Dry)	5-7 Min	5-7 Min	8-10 Min	8-10 Min	20-25 Min	8-10 Min	20-25 Min
Hard Dry	2 Hours	2 Hours	2 Hours	2 Hours	5 Hours	2 Hours	5 Hours
Pre and Post Heating of (Touch to Dry)	1-3 Min	1-3 Min	1-3 Min	3-5 Min	10 Min	1-3 Min	30 Min
PCB Coating @50 Deg C Hard Dry	10 Min	10 Min	10 Min	15 Min	20 Min	15 Min	60 Min
Curing Time	24 Hours	24 Hours	24 Hours	24 Hours	24 Hours	24 Hours	24 Hours
Optimum Properties	7 Days	7 Days	7 Days	7 Days	7 Days	7 Days	7 Days
Packing	500 ml Aerosol	1,5,25,100 Liter	1,5,25,100 Liter	1,5,25,100 Liter	1,5,25,100 Liter	1,5,25,100 Liter	1,5,25,100 Liter