



# ACRYLCOAT LED- LGT-SPL-60 CONFORMAL COATING

Global Quality Through Indigenous Technology



ISO 9001-2015 • C-DOT APPROVED • MIL STANDARD MIL-I-46058-C TYPE AR • ROHS COMPLIANCES

Conins Acrylcoat LED-LGT-SPL-60 is a single compound which does not need to be mixed with any thinner. LGT-SPL-60 is the thickest conformal coating of its kind, transparent yet very thick coating on electronic circuits. It has very strong bonding on the surface and after drying the coating thickness is 200+ microns.

- Protects LED Lighting from high humidity, salty weather, conductive dust, oxidation, corrosion, rusting & fungus.
- Provides transparent hard film coating on the surface of LED lights and circuits.
- Improves the functioning of LED lights without any failure.
- 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°C to 130°C
- Minimizes service calls and repairs; hence reduces service/repair overheads for the end users and manufacturers.

## Technical Details / Particulars

TECHNICAL DATA	LED-LGT-SPL-60
Appearance (Liquid & Coated Dry Film)	Clear, Transparent
Specific Gravity (Density @25 Deg)	0.910
Viscosity (@25 Deg)	60 CPS
Flash Point	<40
CTI Value	600
Coating Thickness (Single Coat)	30-35 Micron
Diaelectric Strength	15 KV/MM
Thermal Cycling	AS PER MIL Std.
Moisture Resistance	1.5 x 10 <sup>12</sup> Ohms
Insulation Resistance	3.5 x 10 <sup>12</sup> Ohms
Fungus Resistance	AS PER MIL Std.
Withstand Temperature (Film)	-40° To +130° (Deg C)
Coverage Area (20 micron Film)	5-6 m <sup>2</sup> (Appx)
Film Traceble	Under UV Lamp
Drying Time (Touch to Dry)	8-10 Min
Hard Dry	2 Hours
Pre and Post Heating for (Touch to Dry)	1-3 Min.
PCB Coating @50 Deg C Hard Dry	15 Min.
Curing Time	24 Hours
Optimum Properties	7 Days
Water Vapour Dans. Rate ASTM-E-96g/h-m2	0-310
Shore Hardness ISO-868-durameter	58
Elongation ISO-527-3 N/mm2Cpsi	5-9 (847)
Tensile Mudules ISO-527-3 N/mm2Cpsi	575 (82000)
Volume Resistivity IEC-60093 Ω	7.00 x 10 <sup>15</sup>
Surface Resistivity IEC-60093 Ω	1.63 X 10 <sup>17</sup>
Flame Test As per UL94-V-1	Pass
Packing	1,5,25 Litre.
** Shelf life @ room temp	18 months



# ACRYLCOAT LED LGT-SPL-60



## Application

### Brushing

This is easiest and most economical for applying lacquer. Better suited for batch production & service applications. Brushing method ensures uniform application of coating and the thickness depends upon application.

- Dip the application brush in the can
- Take ample quantity of acrylcoat in brush
- Apply the conformal coating evenly on the PCB assembly and component.
- Leave the component to dry in a well-ventilated area.

### Dispensing Pump / CNC Method

This method can be used when the quantity of PCAs is more. For spraying by dispensing pump no gas is required. Hence it is safe to apply. It covers more area and very less is wasted. Lacquer can be sprayed with a spray gun and a compressor. Application can be done with the help of compressed air with 0.5kg or 1kg air pressure. Spraying can be done with the help of a spray gun with adjustable spraying angles.

- Maintain pressure and spray each passing the same direction.
- If more thickness is required, inverse the board and spray in the same way once or twice again.
- Keep distance of 8 to 10 inches from the board while spraying.
- The spray gun should be held at an angle of 45°.
- Ensure that all sides are properly sprayed.
- Leave the component to dry in well-ventilated area.

### Removal

The coating can be removed using Conins Thinner EL-CLEAN

### Storage

Care should be taken while storing the coating material. Store in a cool dry place below 40°C. Keep away from naked flame or flammable material. The contents are highly inflammable. Destroy the container after use.

### Caution

Use conformal coating in a very well-ventilated room.  
Do not use it in an air-conditioned room.  
Acrylcoat is a flammable material. Contact with skin or eyes and inhalation should be avoided.  
In case of contact, wash the affected areas with soap and plenty of water. Keep away from open flames and Flammable material. Use in an adequately ventilated area only.

Refer MSDS prior to use.



# ConinsPune

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