



ACRYLCOAT ALQ-100 – ACRYLIC BASE 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 ALQ-100 is a single compound which does not need to be mixed with any thinner. ALQ-100 is a range of high quality, flexible, transparent, and eco-friendly acrylic conformal coating for PCA which are inevitable and delicate components in electronics and electrical. PCA can be damaged in harsh environmental conditions and results in failure of electronics to function. ConinsAcrylcoat ALQ-100 provides the right protection for the PCAs.

- Rohs Compliances
- Easy to apply, fast drying, fast curing
- Provides excellent adhesion to all surfaces
- Good dielectric strength; hence provides protection against high voltage and corona shorts.
- Easily solder-able; thus, components can be easily serviced.
- Contains UV tracer for easy inspection.

Technical Details / Particulars

TECHNICAL DATA	ALQ-100
Appearance (Liquid & Coated Dry Film)	Clear, Transparent
Specific Gravity (Density @25 Deg)	0.900
Viscosity (@25 Deg)	80 CPS
Flash Point	<40
CTI Value	600
Coating Thickness (Single Coat)	45-50 Micron
Diaelectric Strength	15 KV/MM
hermal Cycling	AS PER MIL Std.
Moisture Resistance	1.5 x 10 ¹² Ohms
Insulation Resistance	3.5 x 10 ¹² Ohms
Fungus Resistance	AS PER MIL Std.
Withstand Temperature (Film)	-40° To +130° (Deg C)
Coverage Area (20 micron Film)	4-5 m ² (Appx)
Film Traceble	Under UV Lamp
Drying Time (Touch to Dry)	10-15 Min.
Hard Dry	2 Hours
Pre and Post Heating for (Touch to Dry)	3-5 Min.
PCB Coating @50 Deg C Hard Dry	15 Min.
Curing Time	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 ¹⁵
Surface Resistivity IEC-60093 Ω	1.63 X 10 ¹⁷
Flame Test As per UL94-V-1	Pass
Packing	1,5,25 Litre.
Shelf life @ room temp	18 months



ACRYLCOAT ALQ-100



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.

Dipping

Lacquer can be applied by dipping method. This method is most suitable for small production or assembly units or shops.

- After masking contact area and test areas, the PCA should be slowly dipped fully in ALQ-100 and kept immersed for 5mins.
- Allow enough time for air bubbles to escape.
- Withdraw the component slowly at a uniform rate.
- 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.



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