



# ACRYLCOAT SKR-70 – COATING FOR G1/G2/G3 COMPLIANCES

Global Quality Through Indigenous Technology



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

Conins Acrylcoat SKR-70 is a single compound which does not need to be mixed with any thinner. SKR-70 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.

- Rohs compliances
- Contains UV tracer for easy inspection.
- Easily solder-able; thus, components can be easily serviced.
- Protects corrosion/rusting in very high Humid conditions. Can be replaced potting material transparent and hard – Protects against few gases in the air.

- Vibration & shaking will not lose the component mounted on PCA.
- Coating can be removed with solvent.
- Film traceable under UV lamp
- Where very high humid or dew or water drops.
- Withstands 5 to 10% of industrial gases are in exist (G1/G2/G3 Conditions)

## Technical Details / Particulars

| TECHNICAL DATA                          | SKR-70                    |
|-----------------------------------------|---------------------------|
| Appearance (Liquid & Coated Dry Film)   | Clear, Transparent        |
| Specific Gravity (Density @25 Deg)      | 890                       |
| Viscosity (@25 Deg)                     | 190+ Sec Ford CUP#4       |
| Flash Point                             | <40                       |
| CTI Value                               | 600                       |
| Coating Thickness (Single Coat)         | 200-250 Micron            |
| Diaelectric Strength                    | 15 KV/MM                  |
| Thermal Cycling                         | AS PER MIL Std.           |
| Moisture Resistance                     | $1.5 \times 10^{12}$ Ohms |
| Insulation Resistance                   | $3.5 \times 10^{12}$ Ohms |
| Fungus Resistance                       | AS PER MIL Std.           |
| Withstand Temperature (Film)            | -40° To +130° (Deg C)     |
| Coverage Area (20 micron Film)          | 3-4 m <sup>2</sup> (Appx) |
| Film Traceble                           | Under UV Lamp             |
| Drying Time (Touch to Dry)              | 20-25 Min.                |
| Hard Dry                                | 5 Hours                   |
| Pre and Post Heating for (Touch to Dry) | 10 Min.                   |
| PCB Coating @50 Deg C Hard Dry          | 20 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          | $7.00 \times 10^{15}$     |
| Surface Resistivity IEC-60093 Ω         | $1.63 \times 10^{17}$     |
| Flame Test As per UL94-V-1              | Pass                      |
| Packing                                 | 1,5,25 Litre.             |
| Shelf life @ room temp                  | 5 months                  |



# ACRYLCOAT SKR-70



## 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-30 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.

### 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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### Refer MSDS prior to use

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