



# JD-625

## PCB Conformal Coating

UL File No. E354546

### Features

JD-625 is a translucent room temperature vulcanizing coating with a working temperature range of -60°C to 200°C after cured.

The cured compound is moisture resistant, electric resistant, weather resistant, and ozone resistant, also has excellent adhesion, elasticity and good electrical properties.

### Applications

Designed for thin or thick film applications on electronic components and printed circuit boards. It provides long-term coating against ambient moisture and contaminants.

### Typical specifications

|                     |                   |   |
|---------------------|-------------------|---|
| Color               | :                 | Translucent (Clear after cured)                               |
| Viscosity           | : @25°C           | 1,000 - 1,200 cps   |
| Solid Content       | :                 | 50 - 55 %   |
| Tack-free Time      | : @25°C           | 20 - 45 mins (depends on coating thickness)                   |
| Cure Time           | : (Thin film)     | 25°C x 24 hrs(48hrs to get full cure) OR<br>60°C x 6 - 10 hrs |
| Hardness            | : Shore A         | 20 - 25   |
| Dielectric Strength | :                 | 18 kV/mm (457 volts/mil)                                      |
| Volume Resistivity  | :                 | $1.0 \times 10^{15}$ ohm-cm                                   |
| Surface Resistivity | :                 | $1.0 \times 10^{14}$ ohm                                      |
| Dielectric Constant | :                 | 3.0   |
| Flammability        | : UL94            | V-0   |
| Shelf Life          | : @25°C, Unopened | 6 Months  |

### Usage

- JD-625 exhibits outstanding adhesion to most metals and non-metallic objects. Preprocess and clean the surfaces which will be coated beforehand to ensure the best performances and results.
- After contacting with moisture in air, JD-625 will start curing from the surfaces to inner sections. The curing speed is related to the thickness of JD-625 applied, humidity in air and temperature. The thicker JD-625 applied or the lower the relative humidity is, the longer the curing time will be. Hence, heat curing may be considered.
- For the best result or to get a thicker film, please always apply a thin film (0.1~0.2mm) first and just repeat the same operation twice or more times after each thin film previously applied is surface cured.
- After opened, the container must be sealed tightly to avoid water contamination which will reduce the shelf life of the remaining product.

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