



# JD-727

## Solvent Free Silicone Coating

UL File No. E526815

### Features

- A solvent free, low viscosity, 100% solid content silicone coating.
- Fluoresces under U.V. light for fault inspection.
- Moisture curing, reacts with humidity in the air to form an elastic protective layer.
- Cured at room temperature or with heat.
- After cured, it has good insulation, moisture resistance, and cushioning properties.
- Suitable for most substrates and adheres well, it is widely used for protecting and insulating purposes in circuit boards or electronic components.
- Compliance with UL94 V-0, and RoHS Directive.

### Physical Properties

Appearance	:	Translucent liquid
Viscosity	:	500 ~ 600 cps
Specific Gravity	:	0.95 ~ 1.05
Tack Free Time	:	@25°C 10 ~ 15 mins (depends on coating thickness)
Cure Time	:	25°C x 24 hrs *For heat curing: Below 60°C, simultaneously increase humidity (RH55~75%).
Hardness	:	Shore A 30 ~ 36
Temperature Range	:	-40°C ~ +200°C
Glass Transition Temperature (Tg)	:	<40°C
Dielectric Strength	:	20 kV/mm
Tensile Strength	:	0.5 MPa
Elongation	:	60%
Volume Resistivity	:	1.5 x 10 <sup>14</sup> ohm · cm
Dielectric Constant	:	1MHz 3.0
Dielectric Dissipation Factor	:	1MHz 4 x 10 <sup>-3</sup>
Shelf Life	:	@25°C, Unopened 6 Months

### Handling & Storage

- For high strength bonding, clean the contact surface to remove dust, grease and all other contaminants before applying the adhesive.
- After contacting with moisture in air, JD-727 will start curing from the surfaces to inner sections. The curing speed is related to the thickness of JD-727 applied, humidity in air and temperature. The thicker JD-727 applied or the lower the relative humidity is, the longer the curing time will be. Hence, heat curing may be considered.
- 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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