



# JD-5086 Series

UV & Moisture Cure coating

UL File No. E526815

## Features

- A solvent free, one-component acrylate polyurethane coating.
- Cure rapidly, fluorescent identification, convenient for visual inspection of coating appearance.
- Shadowed sections can be cured by the moisture in the air.
- High dielectric breakdown strength and insulation resistance including humid and harsh conditions.
- The cured film has good chemical resistance, and provides protection against mechanical stress, contaminants, moisture, dust and corrosive gases.
- No benzene, toluene and xylene in the solvent.
- Compliance with UL94 V-0, IPC-CC-830 and RoHS Directive.

## Physical Properties

Appearance	:	Colorless transparent liquid
Viscosity	:	ISO 2555 <b>JD-5086-80</b> : 55 ~ 105 cps <b>JD-5086-25</b> : 175 ~ 325 cps <b>JD-5086-50</b> : 350 ~ 700 cps
Density	:	@25°C, ISO 2811 1.02 ~ 1.17 g/ml
Solid Content	:	ISO 3251 100%
UV Curing time	:	1000 ~ 3000mJ/cm <sup>2</sup> 5 ~ 30 sec
Hardness	:	@25°C, ISO 868-2003 Shore D 60
Thermal Shock	:	@-40°C~+125°C Pass
Glass Transition Temperature (Tg)	:	ISO 11357 (DSC) 56°C
Cross Cut Test	:	@25°C, GB 9286 Class 0
Salt Fog Test	:	@25°C, IPC-TM-650 Pass
Dielectric Constant	:	@25°C, ASTM D 150 2.6
Permittivity	:	@25°C, ASTM D 150 0.012
Dielectric Strength	:	@25°C, ASTM D 115 60 kV/mm
Insulation Resistance	:	@25°C, MIL-I-46058C 1.0 x 10 <sup>15</sup> ohm
Volume Resistivity	:	@25°C, IEC 60464 1.7 x 10 <sup>14</sup> ohm · cm
Shelf Life	:	@25°C, Unopened 1 Year

## Handling & Storage

- For high strength bonding, clean the contact surface to remove dust, grease and all other contaminants before applying the adhesive.
- JD-5086 should be stored in the shade and a cool place. Avoid the contact with any light (including ultraviolet ray). Put the lid back on immediately after each use to prevent any possibility of light exposure, which will affect the product performances. to prevent any possibility of light exposure, which will affect the product performances.



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