

## Product Information

# UV Conformal Coating T2700-P

## Introduction

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T2700-P is a urethane-acrylic based composite that is fully solidified and uses ultraviolet (UV) light cure and dual moisture to cure moisture by absorbing moisture in shaded areas that cannot be illuminated. Meet the stringent requirements of the industrial control electronics industry. After solidification, it forms a dense protective and dense protective film layer. It is insulated, moisture-proof, dust-proof, anti-pollution, anti-corrosive gas; for moisture, acid and alkali, detergents and chemical solvents. All have excellent resistance; suitable for high-reliability hybrid integrated circuits, military aviation and maritime circuits, industrial electrical equipment, industrial instrumentation, telecommunications equipment, appliance controllers and other electronic gas facilities protection.

### Features / Benefits:

- UV curable
- Moisture cure
- Excellent adhesion
- Fast curing
- Non-ozone depleting
- Meets requirements IPC-CC-830

### Applications

T2700-P can be brushed on the base material, such as PET, PMMA and PC material, such as the thickness of the coating can accord customer's requirement. T2700-P is high crosslinking coating, shall be cured under UV light.

### Before using:

Before applying T2700-P UV conformal coating, clear the surface to remove greaser, flux, wax and other contaminations for better adhesion.

## Chemical and physical properties

Property	Test method	Result
Appearance	Visual	Fluorescent liquid
Solids		100%
Specific gravity	DIN51757	1 ± 0.05
Viscosity, ( mPa.s)		130 ± 20

Curing	Ultraviolet wavelength 365nm, exposure intensity: 100mW/cm <sup>2</sup> , Exposure energy ≥ 1200mJ/cm <sup>2</sup>	12s 1mm 30s
Moisture cure	23°C, 65%RH	≤ 72h
Adhesion	DIN 51351	Gt 0
Bending test	IEC6464-2	>180 °
Volume resistance	IPC-TM -650, 2.5.17.1	2.0x 10 <sup>16</sup> Ohm x cm
Moisture-proof insulation resistance	IPC-CC-830B, 3.7.1(90% humidity)	5.0x 10 <sup>14</sup> Ohm x cm
Surface Resistivity	IPC-TM -650, 2.5.17.1	2.0x 10 <sup>16</sup> Ohm x cm
Dielectric strength	Beck Test 6a/6b (IEC60464, part 2 at 23°C)	100KV/mm
Dielectric constant	IEC 60250, (23°C 10kHz)	3.5
Leakage proof characteristics	EN50019 (DIN IEC 112-6/84, solution B)	CTI>600M
Water absorption	Beck Test 9a/9b(23°C)	1.2%
Insulation endurance class	DIN EN 60216 (IEC 60216), issue 2001	150°C
Thermal shock	IPC-CC-830B, 3.7.2	Pass
Hydrolytic stability	IPC-CC-830B, 3.7.2	Pass
Coating flammability	IPC-CC-830B, UL746	94V-0

#### Application Method:

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- High-quality brush is used for brushing operation. This will not cause the bristles and brush marks to remain on the circuit board. It avoids damage to the circuit board and components from the surface. At the same time, attention must be paid to keeping the plastic product tank closed. Pour out the proper amount of gum and wait outside.
- Spraying is primarily for computer controlled (atomized or curtain) selective spraying equipment. This selective spray equipment can be selectively coated only on the area where the PCB needs coating. The operation needs to select the nozzles suitable for the current viscosity and the spray pressure according to the instructions of the different equipment's (usually suitable for medium-viscosity coating glues for the best coating effect), in order to ensure that the coating penetrates into the bottom of the components. And the edge position of any coupling position, spraying should be sprayed smoothly from all angles.

#### Packaging and Availability

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T2700-P-50	50cc
T2700-P-250	250cc

#### Environmental Policy

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Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.