

## UV Conformal Coating Technical Data Sheet

### BT5100UV-400

#### DESCRIPTION:

UV Cure BT5100UV-400 is a medium viscosity conformal coating for Printed Circuit Boards (PCB's), components and various substrates. When exposed to long wave UV it forms a tough, clear and flexible coating. UV Cure BT5100UV-400 resists yellowing, vibration and impact.

UV Cure BT5100UV-400 does not contain any solvents and forms a smooth, non-sticky surface.

#### FEATURES:

- Fast Cure
- Medium Viscosity
- Excellent Adhesion
- Good Water & Chemical Resistance

#### TYPICAL SPECIFICATIONS:

Color	Clear
Solids content, %	100
Dielectric Strength, Volts/mil	425
Viscosity, 25 °C, cps	400 ±100
Hardness, Shore D	75
Specific gravity, 25 °C	1.125
Operating temperature range, °C	-65 to +155
Tensile strength, psi	3,850
Refractive Index	1.49

#### CURE SCHEDULE

UV Black light, 40 watt, minutes	10 (50 mils thickness)
UV 100 Spot Cure, seconds	30 (50 mils thickness, 4 w/cm <sup>2</sup> )
UV Cure Conveyor	1 pass @ 20 FPM (300 WPI, 2 mil film)
Optimum wave length, nm	300-400

Cure speed is dependent upon the UV light source, thickness of material, distance from the light, and UV transmission of substrates through which the UV light must pass to reach the adhesive.

Cure speed may be increased by warming material or substrate. Cure speed may also be increased by IR or conventional thermal oven after UV exposure.

#### STORAGE & HANDLING:

Store out of sunlight in original container. Product shelf life under proper storage conditions is at least nine months at temperatures between 40-60 °F. Avoid exposing material to moisture.

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**AVAILABILITY:**

UV Cure BT5100UV-400 is available in 10cc, 30cc and 55cc syringes, Quarts, Gallons, 5 Gallon Pails and 55 Gallon Drums.

**HYGIENE & SAFETY:**

Low potential for skin and eye irritation or sensitization. iSee Safety Data Sheet (SDS) for more details on proper handling and precautions.

**IMPORTANT:**

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