



# EV Therm 601



## Technical Data Sheet



## UV Cure Coating Compound

EV Therm 601 is a two-component, thermally conductive, flame retardant UV curable resin system.

This material provides optimum coating (minimum coating thickness of 150 microns) protection for electronic assemblies and components. This material is also thermally conductive and is recommended for use with heatsinks, heat spreaders, and other thermal dissipation applications.

<b>Technology/Base:</b>	UV Cure Acrylic
<b>Type of Product:</b>	Coating
<b>Components:</b>	Two Component
<b>Curing:</b>	UVA @ 1,000 mJ/cm <sup>2</sup>
<b>Appearance / Color:</b>	Gray
<b>Consistency:</b>	Low Viscosity Liquid

## Curing Profile

EV Therm 601 can be cured at room temperature using UVA light (315-400 nm) with a minimum energy of 1,000 mJ/cm<sup>2</sup>. Curing can be performed with metal halide, mercury, or LED lamps.

If compound is below 15°C, warm to 25°C before opening.



## Features and Benefits



- Supplied in pre-measured pail and drum kits – no measuring or meter mixing required.
- Low viscosity and surface tension make it easy to dispense and degas, with reduced air bubbles.
- Particularly suitable for coating of heat sinks, capacitors, module components, and other SMT micro electronic devices.

- Thermally conductive.
- Very good adhesion to various metals and plastics without the need for primers.
- Superior low and high temperature cycling performance.
- This material is designed to meet the flammability requirements of UL-94 VO.



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### Typical Uncured Properties

Color	Gray
Specific gravity D792/D1475	1.93
Viscosity at 25°C (cP)	2,500
Shelf life at 25°C	6 months (if sealed and protected from light)

### Typical Physical Properties of Cured Material

Property	Test Method	Value
Hardness, Shore D	ASTM D-2240	50
Thermal Conductivity (W/m-K)		1.8
Glass Transition Temperature (Tg) (°C)	DSC	-6
Coefficient of thermal expansion (ppm/°C)		TBD
Linear shrinkage (%)		TBD

### Typical Electrical Properties of Cured Material

Property	Test Method	Value
Dielectric Strength (kV/mm)	ASTM D-0149	57
Dielectric Constant at 1 MHz	ASTM D-0150	4.72
Dissipation Factor at 1 MHz	ASTM D-0150	0.038
Volume Resistivity (ohm-cm)	ASTM D-0257	$1.9 \times 10^{11}$
Surface Resistivity (ohm)	ASTM D-0257	$1.8 \times 10^{12}$



### Handling and Clean-Up

See "H.B. Fuller® EV Therm 601 Handling guide" for mixing and application instructions.

Equipment, brushes, and spillage can be cleaned promptly after use with a mixture of anhydrous isopropyl alcohol and acetone that should be discarded after each use.



### Storage and Shelf Life

EV Therm 601 should be stored in a cool, dry place, and must be protected from light. Shelf life is a minimum of 6 months in unopened containers when stored at 25°C. DO NOT purge opened containers with nitrogen.

EV Therm 601 must be agitated before use and continuously during use to maintain uniformity of the material.



### Typical Packaging

5 gal Pail Kits

55 gal Drum Kits



### Safety and Disposal

Please see the Safety Data Sheet (SDS) for proper handling and disposal instructions.

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