

# 60-7170

## ADHESIVE AND ENCAPSULATING RESIN

### DESCRIPTION:

UV Cure 60-7170 is a one- component epoxy that cures with low intensity black light or high intensity UV lamps. UV 60-7170 is water clear and is designed to be used as an adhesive, coating, or encapsulant. This system is moisture and chemical resistant.

UV Cure 60-7170 is a good choice for potting and encapsulating applications due to its ability to deep section cure up to  $\frac{3}{4}$  inch. Another unique and important feature is its ability to “dark cure.” Once exposed to UV light the UV Cure 60-7170 will continue to cure in the absence of light. This is advantageous when potting or joining substrates with shadow areas. UV Cure 60-7170 may also be heat cured as a secondary cure operation.

UV Cure 60-7170 is not affected by oxygen and will not have a sticky or greasy surface. The surface is rigid, smooth, and glossy when properly cured. UV Cure 7170 bonds to metal, plastic, paper and ceramic.

UV Cure 60-7155 is a lower viscosity version of UV Cure 60-7170.

### FEATURES:

- One component
- Excellent adhesion
- Contains no solvents
- Good electrical insulation
- Low shrinkage
- No out gassing
- Will shadow cure
- Good weathering resistance
- Cure is not inhibited by oxygen
- Low odor

### TYPICAL SPECIFICATIONS:

Color	Water clear
Specific gravity, 25°C	1.09
Viscosity, 25°C, cps	4,500
Solids content, %	100
UV wavelength, optimum	300 nm
Tensile strength, psi	6,200
Operating temperature range, °C	-50 to +200
Moisture Resistance	Excellent
Dielectric Strength, Volts/mil	425



### CURE SCHEDULE

UV Black light, 40 watt, minutes	15
UV 100 Spot Cure, seconds	2 - 5
UV Cure Conveyor, seconds	2 - 5
Optimum wave length, nm	300

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 twelve months at temperatures between 40-60°F. Avoid exposing material to moisture.

### AVAILABILITY:

UV Cure 60-7170 is available in 10cc, 30cc and 55cc syringes, Quarts, Gallons, 5 Gallon Pails and Gallon Drums.

### HYGIENE & SAFETY:

Low potential for skin and eye irritation or sensitization. See OSHA Material Safety Data Sheet for more details on proper handling and precautions.

### IMPORTANT:

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