



# APTEK LABORATORIES, INC.

ISO 9001 / AS9100 Certified

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## TECHNICAL DATA & INFORMATION

### UVISTAKE™ 7206

UV Curing, Urethane Staking Compound

### PRODUCT DESCRIPTION

**UVISTAKE 7206** is a 100% solids, thixotropic, one component, electrically insulating, urethane system designed for the attachment and staking of electrical/electronic components mounted on printed circuit boards. This system provides an excellent combination of flexibility and strength for demanding applications where toughness is required for the management of thermomechanical stresses.

**UVISTAKE 7206** will become tack free when exposed to the proper UV light radiation.

### KEY FEATURES AND BENEFITS

- Good flexibility for reduced stress in the encapsulation of sensitive glass-bodied components
- Highly reversion resistant for good physical stability under high heat and humidity environments
- Excellent adhesion to plastic/metal components and substrates. Adheres well to itself for multicoat and repair applications
- Packaged in syringes for convenient dispensing. Plungers available for hand operation or pneumatic--type syringes for automated dispensing.
- No TDI, no toxic solvents, no free acrylic acid for safety

### HANDLING INFORMATION

Note: Work life adversely affected by heat and humidity. Keep material away from direct sunlight. Store in original factory sealed containers/syringes.

### CURE SCHEDULE

#### **U.V. Cure with Conveyor Equipment**

2 passes under 300 W/in Fusion UV, D-bulb lamp at rate of 5 feet per min.

#### **U.V. Cure with Spot Cure Equipment**

We recommend using an EFOS Novacure or equivalent equipment with similar power generating capabilities. This system is capable of generating the same amount of energy as in cure #1. In some applications, diffusers may be necessary to insure even energy distribution and complete cure. Customer should consult Aptek Laboratories and/or equipment supplier to optimize cure for individual applications.

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Note: The above cure schedules are conservative and should be used as guidelines only. User should determine proper cure schedule based on applications requirements and properties desired.

**TYPICAL PROPERTIES**  
(not for specification purposes)

<b><u>CHARACTERISTICS</u></b>	<b><u>7206</u></b>	<b><u>TEST METHOD</u></b>
Color	Clear yellow/amber	Visual
Specific gravity	1.14	ASTM D-1475
Viscosity @ 20°C, cps	thixotropic paste	ASTM D-1824
Flash point, °C	>100°C	TCC
Shelf life @ 25°C, in factory sealed containers, months	6	

<b><u>CURED PHYSICAL PROPERTIES</u></b>	<b><u>7206</u></b>	<b><u>TEST METHOD</u></b>
Hardness, Durometer D	50	ASTM D-2240
Glass transition temp., °C	-20	ASTM E831-86
Fungus resistance	Non-nutrient	ASTM G-21

<b><u>CURED ELECTRICAL PROPERTIES</u></b>	<b><u>7206</u></b>	<b><u>TEST METHOD</u></b>
Volume resistivity, @25°C, ohm-cm	$1.0 \times 10^{14}$	ASTM D-257
Dielectric constant, @1KHz, @25°C	3.8	ASTM D-150
Dissipation factor @1KHz, @25°C	0.04	ASTM D-150
Dielectric strength, 0.003" thick film, volts/mil	>1500	ASTM D-149
Insulation resistance, ohms	$1.0 \times 10^{13}$	MIL-I-46058C

**SAFETY AND FIRST AID**

**UVISTAKE 7206** is 100% solids organic acrylated resin blend usually packaged in syringes and is thus considered safe to use when handled properly. Store at 25°C or below and keep away from flame, sparks, or other sources of ignition. Use in a well ventilated area and avoid breathing vapors. In case of eye contact, flush with fresh clean water for at least 15 minutes; for skin contact, wash thoroughly with soap and water. If swallowed, drink at least one pint of water and call a physician. Refer to Material Safety Data Sheet for more details.

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