



APTEK LABORATORIES, INC.

ISO 9001 / AS9100 Certified

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TECHNICAL DATA & INFORMATION

UVISTAKE™ 7207

UV Curing, Urethane Staking Compound

PRODUCT DESCRIPTION

UVISTAKE 7207 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 7207 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
- Low viscosity version available for bonding, coating and potting applications designated as **UVIBOND™ 7100**.

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 foot 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)

<u>CHARACTERISTICS</u>	<u>7207</u>	<u>TEST METHOD</u>
Color	Hazy yellow/amber	Visual
Specific gravity	1.07	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	

<u>CURED PHYSICAL PROPERTIES</u>	<u>7207</u>	<u>TEST METHOD</u>
Hardness, Durometer D	80	ASTM D-2240
Fungus resistance	Non-nutrient	ASTM G-21

<u>CURED ELECTRICAL PROPERTIES</u>	<u>7207</u>	<u>TEST METHOD</u>
Volume resistivity, @25°C, ohm-cm	1.0×10^{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	1.0×10^{13}	MIL-I-46058C

SAFETY AND FIRST AID

UVISTAKE 7207 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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