

## Multi-Cure® 602-Rev-B General Purpose Bonding Adhesive

Multi-Cure® 602-REV-B is a high strength, structural adhesive that is used in a wide variety of applications. Tough, resilient bonds form upon exposure to UV light in applications such as coil terminating, unitizing commutator windings and tamper proofing adjustment screws. 602-REV-B bonds well to steel, aluminum, and glass surfaces. 602-REV-B can be cured with UV light, heat, or pre-applied activator. This product is in full compliance with RoHS directives 2015/863/EU.

### TYPICAL UNCURED PROPERTIES (not specifications)

Solvent Content	None - 100% Reactive Solids	
Chemical Class	Urethane Acrylate	
Appearance	Clear Amber Liquid	
Flash Point	>93°C (200°F)	
Solubility	Alcohols/Chlorinated Solvents/Ketones	
Toxicity	Low	
Viscosity (20 rpm)	5,000 cP (nominal)	ASTM D-1084

### TYPICAL CURED PROPERTIES (not specifications)

Durometer Hardness	D70	ASTM D-2240
Tensile at Break	6,000 psi (41 MPa)	ASTM D-638
Elongation at Break	30%	ASTM D-638
Modulus of Elasticity	400,000 psi (2,760 MPa)	ASTM D-638
Tensile (Lap) Shear (steel to steel)	4,000 psi (28 MPa)	ASTM D-1002
Water Absorption (24 h)	5.0%	ASTM D-570
Boiling Water Absorption (2 h)	8.0%	ASTM D-570
Linear Shrinkage	2%	DSTM D-101**
Coefficient of Linear Thermal Expansion	100 x 10 <sup>-6</sup> cm/cm/°C	ASTM D-696

\*\*DSTM refers to DYMAX Standard Test Method

### ELECTRICAL

Dielectric Strength	18.9 kV/mm	JISK-6911
Surface Resistivity	3 x 10 <sup>12</sup> Ω	JISK-6911

### CURE DATA - Using 365 nanometer UV light:

	Cure Time (Seconds)	Intensity (mW/cm <sup>2</sup> )	Dymax Lamps
Tack-free cure (1/8-inch bead)	10	175	5000-EC
Depth of cure (1/4 inch)	10	175	5000-EC
Fixture between glass slides	1-2	50	2000-EC



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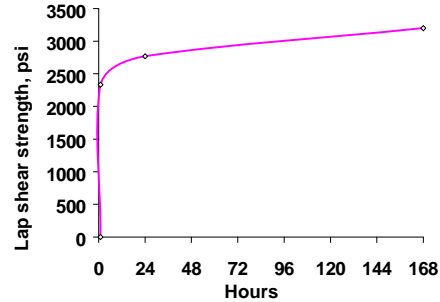
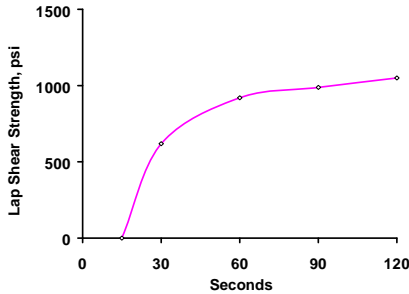
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**BOND STRENGTH DEVELOPMENT USING 501-E ACTIVATOR**



**Shadowed areas can be cured with activator or heat.**

Activator is placed on one surface and the adhesive on the mating surface. Curing takes place at room temperature when the parts are mated. Activator requires well-mated parts (up to 0.015-inch gap). Well-mated parts fixture (achieve handling strength) in less than a minute. See DYMAX Technical Bulletin "Guidelines for Activator Curing" for complete instructions for all activators.

Heat may be used after UV cure to cure shadowed areas or after activator cure to accelerate cure. The following guidelines depend on the amount of adhesive:

<u>Minimum Adhesive Temperature</u>	<u>Time</u>
110°C (225°F)	60 Minutes
120°C (250°F)	30 Minutes
150°C (300°F)	15 Minutes

**DISPENSING AND HANDLING ADHESIVE**

602-REV-B is available in various packages such as syringes, cartridges, bottles, and pails. It may be dispensed with a variety of automatic bench-top syringe applicators or other equipment as required. Direct questions relating to dispensing and curing systems for specific applications to the DYMAX Tech Center at 860-482-1010.

Wear impervious gloves and/or barrier cream. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. Do not wear absorbent gloves. Remove adhesive from skin with soap and water. Never use solvents to remove adhesive from skin or eyes.

**STORAGE AND SHELF LIFE**

Store the material in a cool, dark place when not in use. Do not expose to light. This product may polymerize upon exposure to ambient or artificial light. Keep covered when not in use. This material has an 18-month shelf life from date of manufacture, unless otherwise specified, when stored between 10°C (50°F) and 35°C (90°F) in the original, unopened container.

**CAUTION**

For industrial use only. Avoid breathing vapors. Avoid contact with eyes and clothing. In case of contact, immediately flush with water for at least 15 minutes; get medical attention. Wash clothing before reuse. Keep out of reach of children. Do not take internally. If swallowed, induce vomiting at once and call a physician. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. For specific information, refer to the product Material Safety Data Sheet.

## **GENERAL INFORMATION**

This product is intended for industrial use only. Keep out of the reach of children. Avoid breathing vapors. Avoid contact with skin, eyes, and clothing. Wear impervious gloves. Repeated or continuous skin contact with uncured material may cause irritation. Remove material from skin with soap and water. Never use organic solvents to remove material from skin and eyes. For more information on the safe handling of this material, please refer to the Safety Data Sheet before use.

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