

Early 1980's

NEW Aerobic Acrylic Adhesives Introduced

- Fixtures in 15-30 seconds with activator
- Displaced traditional, slower and flammable "second generation acrylic (SGA, modified acrylics, methacrylate adhesives technology
- Provided tough shock and impact resistant bonds
- Created quiet motors
- Allowed 100% in-line Q.C. testing

NEW UV Light & Multi-Cure® Aerobic Adhesives

- UV cures in seconds "on demand" (only when exposed to light)
- Bond, coat, pot, seal, and tack in 1 to 10 seconds
- Multi-Cure adhesives offer combined activator, heat, and UV cures
- Adhesive grades developed for plastic, glass, and metal bonding



Mid 1980's

NEW UV Curing Lamps, Medical, and Electronic Adhesives

- First spot/wand UV light-curing lamp
- First flood UV light-curing lamp
- Comprehensive line of UV light-curing lamps and conveyors
- First USP Class VI medical disposable device adhesives
- First solvent-free, UV light-curable conformal coatings
- Comprehensive line of adhesives for electronic assembly



1990's

NEW Visible Light Curing Adhesives & Optical Encapsulants

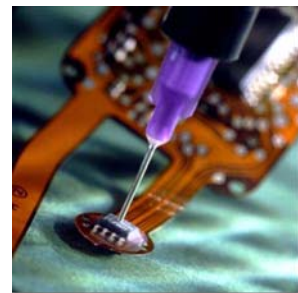
- UV+ visible cure for bonding UV-blocked plastics
- UV+ visible cure for faster light cures
- Encapsulants for hybrid circuit assembly
- Low outgassing and low shrinkage grades
- UV+two part for cures in shadowed areas
- Acrylic, acid-free, regulatory-compliant adhesives



21st Century

NEW Products & Applications

- High-intensity UV BlueWave® spot-curing lamp
- UV light-curable gaskets
- UV light-curable dome coatings
- LED encapsulants
- Flexible circuit encapsulants
- UV light-curable adhesives that bond silicone
- UV light-curable optical hard coatings
- UV light-curable resinous masking compounds



Patent #	Issue Date	Patent Title
4,348,503	September 1982	Adhesive Composition
4,429,088	January 1984	Adhesive Composition
4,432,829	February 1984	Adhesive Bonding Method
4,819,842	April 1989	Radiation Supply and Adhesive Dispensing System
4,963,220	October 1990	Adhesive System Utilizing Metal Ion Containing Activator
4,964,938	October 1990	Bonding Method Using Photocurable Acrylate Adhesive Containing Perester/Tautomeric Acid Adhesion Promoter
5,039,715	August 1991	Photocurable Acrylate Adhesive Containing Perester/Tautomeric
5,185,196	February 1993	Method for Assembly of Laminate Article
5,225,315	July 1993	Water Soluble Formulation for Masking and the Like, and Method Utilizing the Same
5,385,958	January 1995	Activator Formulation and Composition Utilizing Same
5,387,444	December 1995	Ultrasonic Method for Coating Workpieces, Preferably Using Two-Part Compositions
5,388,754	February 1995	Method Utilizing Water Soluble Masking Formulation for Producing an Article
5,387,800	February 1995	Prefocused Lamp and Reflector Assembly
5,393,800	February 1995	Two-Component Coating Formulation
5,512,608	April 1996	Method for Producing an Adherent Deposit Using a Chemically Activated, Multi-Part, Solvent-Free Composition
5,672,393	September 1997	Coating Method Using Actinic Radiation Curable Formulation (Method for Ultra Light Technology)
5,677,362	October 1997	Actinic Radiation-Curable Formulation
5,703,138	December 1997	Oxygen-Curable Coating Composition (Darc Cure [®] Technology)
5,712,321	January 1998	Dual-Curing Coating Formulation and Method (Sure Cure [™])
5,728,787	March 1998	Rapid Curing, Non-Corroding Adhesive Composition and Method of Use (Magnet Bonder [™])
6,008,568	December 1999	Heatsinked Lamp Assembly
6,080,450	June 2000	Composition Exhibiting Improved Fluorescent Response
09/613,884	July 2000	High Heat Resistance Water Soluble Maskant Formulation
6,169,125 B1	January 2001	Electrically Conductive Resinous Material and Radiation Curable Formulation for Producing the Same
6,218,446 B1	April 2001	Radiation Curable Formulation for Producing Electrically Conductive Resinous Materials Method of Use and Article Produced
6,664,307	December 2003	Low Shrinkage Epoxy Resin Formulation
6,765,037	July 2004	Photopolymerizable Epoxy Composition
2,975,537	July 2005	Resinous masking compounds for use in aerospace, aircraft, automotive, vehicular, sports, medical, electronics and coinage industries (SPEEDMASK)
7,001,930	February 2006	Acrylic Resin Formulations Curable To Clear Heat-Resistant Bodies
7,671,543	March 2010	Light exposure control device and apparatus
7,691,557	April 2010	Polymerizable composition exhibiting permanent color change as cure indicator
7,802,910	September 2010	Lightguide Exposure Device
Pending	2003	Coating LED's
Pending	2004	Packaging Adhesives