

# mCAST

## New Solutions for Medical Device Assembly

Electronic Materials Inc., a leader in specialty UV adhesives for more than 15 years, has a new name; **EMIUV** and a new product line dedicated to the medical device market; mCAST.

**EMIUV**, long considered a leader in UV cured adhesive technology, has extensive experience formulating specialty adhesives that include UV cure cationic epoxies, UV cure acrylics and urethanes, and thermal cure epoxy systems. With experience in supplying such demanding markets around the world as computer disk drives, micro-electronics, and photonics, **EMIUV** introduces the mCAST product line to the medical device market. This exciting new product line includes:

- UV and UV and/or thermally curable cationic epoxy formulations
- UV and UV and/or thermally curable acrylic and urethane formulations
- Single and two component thermally curable epoxy formulations
- Water-based acrylic emulsions

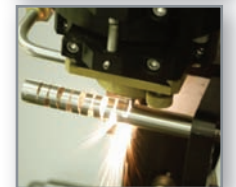
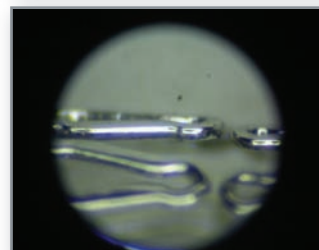
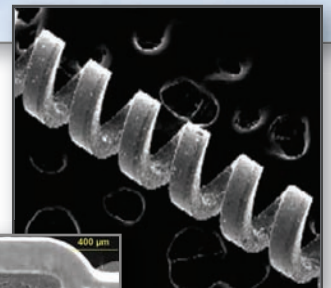
mCAST products feature a wide range of physical properties, many of which can be modified to suit your specific requirements.

Unique to the medical market, the mCAST product line contains several UV cure cationic epoxies. This exciting chemistry enables UV cured polymers to have the following properties:

- High temperature resistance
- Extremely low ionic contamination
- Low outgassing
- Minimal shrinkage
- Superior chemical and moisture resistance
- Virtually odorless
- Cationic cure mechanism exhibits "dark cure"

**EMIUV** has extensive custom formulating and packaging experience with experts on staff to assist you with any medical device or other assembly application you may have. Our flexible manufacturing system allows for fast and accurate scale-up and turnaround time for all mCAST products.

An ISO:9001 Registered company



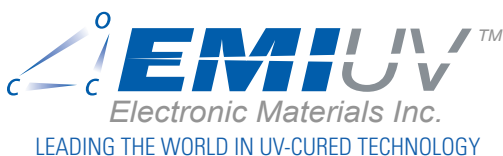
 **EMIUV**<sup>TM</sup>  
Electronic Materials Inc.  
LEADING THE WORLD IN UV-CURED TECHNOLOGY

**EMIUV** is known for its ability to modify existing formulations or create entirely new formulations to solve your toughest application requirements. In addition to the mCAST line, **EMIUV** offers a wide range of standard adhesives, coatings, encapsulants, and gaskets.

Our formulation lab invites you to submit your application for a free test and we will send you an **EMIUV** materials recommendation.

mCAST Part Number	Chemistry	Viscosity	Hardness	Color	Approximate Elongation	Bondable Substrates	Description	Cure Mechanism	USP Class VI
7010	AC - UV	2,000 6,000 65,000 250,000	78D	Clear/ Straw	10%	Glass, Metal	General bonder for inorganic substrates other viscosities available	UV Exposure	TBD
7020	AC - UV	50	80D	Clear	100%	Glass, Metal	High strength glass and metal bonder	UV Exposure	TBD
7123-4K	AC - UV/Vis	4,400	50D	Clear	400%	Plastics	Best PC bonder Tough and clear	UV Exposure	Yes
7124-1K	AC - UV/Vis	1,500	50A	Clear	250%	Pebax, Hytrel	Soft, flexible Dry surface	UV/Vis Exposure	Yes
7101	AC - UV/Vis	50	85D	Clear	5%	PC, Polyester	Fast cure Low intensity UV cure Plastics bonder	UV/Vis Exposure	Yes
7104	AC - UV/Vis	50	75D	Clear	280%	Plastics, Glass, Steel, Aluminum	Needle bonder Optically clear for dissimilar substrates	UV/Vis Exposure	Yes
7105-5K	AC - UV / Thermal	5,000	80D	Clear	300%	Glass, Metal	General bonder Slightly thixotropic Other viscosities available	UV/Thermal	Yes
7222	EP - UV	400	80D	Clear/ Straw	8%	Pebax, Hytrel, Glass, Steel, Aluminum	Cationic epoxy General bonder	UV Exposure	Yes
7360-10K	EP - Two Component	10,000	85D	Pale Amber	1.50%	Plastics, Glass, Steel, Aluminum	Fast room temperature cure High Tg	Room temperature Thermal	TBD
Techcryl 6376	Water-based Acrylic Emulsion	10,000	N/A	Clear	N/A	Tapes, Films, Patches, Fabrics	High solids acrylic emulsion PSA for direct skin application	Moisture Contact	TBD

Fluorescent adhesive formulations are available.



**Electronic Materials Inc.**  
1814 Airport Rd.  
Breckenridge, CO 80424  
Phone: (970) 547-0807  
Fax: (970) 547-0817

**Western Regional Office**  
Phone: (831) 524-1325  
[www.emiuv.com](http://www.emiuv.com)