



Lowering Assembly Costs and Raising Process Efficiencies Through Innovative Technology



## Adhesives, Coatings, and Light-Curing Systems

Adhesives • Coatings • Cyanoacrylates • Encapsulants • Maskants • Potting Compounds • Resins • Sealants  
Spot Lamps • Flood Lamps • Conveyor Systems • Radiometers

# DYMAX: A History of Innovation in Light-Curing Technology

From medicinal chemist to Chairman of the Board, company founder Andrew G. Bachmann grew DYMAX Corporation into a \$30 million global supplier of industrial adhesives, coatings, and light-curing equipment used by medical, electronic, appliance, transportation, and industrial manufacturers.



Andrew G. Bachmann

In 1979, Andy Bachmann and his wife Clai committed to the pursuit of a vision which was to create an adhesive technology that was environmentally friendly and would greatly increase productivity in industrial manufacturing environments. They took

out a second mortgage on the family home and purchased the assets of the Specialty Chemical Company, a division of the Allied Products Corporation. The assets included the DYMAX trade name and a limited product line. Renaming it "The American Chemical & Engineering Company", and subsequently "DYMAX Corporation", they began selling the products from their adhesive inventory. To secure additional funding, they sold a limited amount of private stock to friends and family. This provided the necessary cash flow to cover daily expenses and expand manufacturing capacity.

Tirelessly, Andy and Clai worked to develop a new, patented line of structural adhesives. This adhesive technology combined high bond strength with fast fixturing speed, offering significant productivity improvement to manufacturers of electric motors.

Guided by his vision, Andy continued to research curing methods and formulations that offered faster

processing speeds for a larger segment of the industrial market. This led to the introduction of ultraviolet light-curable adhesives and compatible UV light-curing equipment from DYMAX.

30 years later, DYMAX, an ISO 9001 certified company, is a leading manufacturer of specialty adhesives and light-curing systems. Through the years, DYMAX's innovation resulted in over 30 adhesive and equipment patents, including fluorescing adhesives for in-line inspection and adhesives that cure through semi-opaque and UV-inhibited plastics. Today, DYMAX products and technical solutions offer design and manufacturing engineers the means to dramatically improve manufacturing efficiency and lower total processing costs.

Andy Bachmann is a past recipient of the "Golden C" Award, bestowed by the Commercial Development Association in acknowledgement of his outstanding accomplishments. DYMAX Corporation is also a 2005 recipient of the UConn Family Business of the Year Award, an award that honors Connecticut firms that embody core family values and the best of American free enterprise.



From the design phase through performance testing, DYMAX personnel routinely assist manufacturers in solving their most complex applications problems. With an innovative R&D staff, experienced applications engineers, technically proficient sales managers, and a knowledgeable customer support team, DYMAX is dedicated to providing cost-saving assembly and coating solutions to manufacturers in today's highly competitive environment.

## THIRTY YEARS OF DYMAX INNOVATION

From the 1980's through the 21<sup>st</sup> Century

### 1980's

#### 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



#### UV Light & Multi-Cure<sup>®</sup> 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

#### UV-Curing Lamps and 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

#### Visible Light-Curable Adhesives and 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



### 21<sup>st</sup> Century

#### Products and Applications

- High-intensity BlueWave<sup>®</sup> 200 UV 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





DYMAX Corporate Headquarters

DYMAX Corporation is located in a 100,000 square foot facility in Torrington, CT. Current President and COO, Greg Bachmann, is confident that the new facility will support current and projected growth into the next decade. Today, DYMAX has over 200 employees globally with additional facilities in Germany, China, Hong Kong, and Korea. Over 30 years after incorporation, the DYMAX vision and mission remains the same:

DYMAX Corporation is recognized as a global leader of value-added assembly solutions through adhesives, coatings, light-curing technology, engineering support, and related services.

We will continuously improve our technology, quality, efficiency, and commitment to achieving customer satisfaction by providing innovative, total system solutions that add value to our customers by improving manufacturing efficiency, quality, and worker safety while reducing environmental impact.

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