



Accelerate Your UV Curing Development Using the ChemQuest Technology Institute

CQTI is the only site in North America for conducting UV curing trials, or even production, on large components using Heraeus UV curing technology. No other facility offers such a wide array of state-of-the-art coatings application and curing capabilities on two production ready coatings lines – one for flat parts and another for 3D parts. Plus you get the expertise of experienced UV coatings formulators and applications engineers who help you develop and optimize new UV curable formulations and manufacturing processes. End users of UV curing and UV raw material suppliers and formulators can reduce R&D development time and prove the feasibility of UV curing processes faster.

Benefits

- Confidential UV testing and trials
- Dedicated, uninterrupted testing time
- Real world, production-level testing
- Compare traditional drying versus UV curing on the same line
- Develop starting formulations faster
- Develop better performing UV formulations
- Reduce R&D time and costs
- Quickly gather UV curing process data to evaluate ROI
- Run production for new products

Who uses the CQTI?

CQTI hosts a wide variety of users including:

- UV raw material supplier and formulator R&D chemists and application engineers
- Coatings R&D, process engineers, process development/design engineers, and manufacturing engineers/managers already using or evaluating UV curing for their manufacturing processes

UV Curing Testing Capabilities

Automated Flat-line Coating & Curing

- Reciprocal spray application
- Large parts up to 54" width
- IR convection oven
- UV curing options:
 - Mercury arc lamps
 - Heraeus Semray® 30-inch wide UV LED
 - Heraeus Light Hammer® MARK II 50-inch wide microwave-powered UV curing

Automated 3D Part Hang-line Coating & Curing

- Liquid spray – electrostatic, HVLP, conventional, air assisted airless, airless. Others available upon request.
- Powder coating
- IR convection or high temperature convection ovens
- UV curing options:
 - Mercury arc lamps
 - Heraeus F600 microwave-powered UV curing, flexible orientation for different sizes and shapes of parts

Ideal Applications

UV curing applications for automotive, furniture and cabinetry, flooring, consumer products, electronics, medical devices and diagnostics, aerospace, defense, and other parts. Broadly speaking, the CQTI is ideal for: coatings on wood, metal, glass, composites, and plastic; adhesives for bonding; gasketing and sealing.

The CQTI is located in South Boston, VA near Danville and readily accessible to several regional airports – 90 minutes from Raleigh-Durham airport. To get more details and schedule a visit, contact your Heraeus Noblelight sales representative.

USA

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Flat line with 50-inch wide Heraeus microwave-powered UV curing systems.



3D part hang-line with Heraeus microwave-powered systems.