

RadTech Report 2003

A Year in Review

The following is a list of articles that appeared in the *RadTech Report* in 2003. These articles provide valuable information and data for the UV and EB industry. For a copy of a specific issue, contact RadTech International at (240) 497-1241 or visit RadTech's Web site at www.radtech.org to download a specific article.

January/February 2003—Buyer's Guide

- UV-Curing Process Design and Measurement Terminology
- EPA Special Report
- EPA UV/EB Glossary of Terms
- 2003 UV/EB Buyer's Guide

March/April 2003—Adhesives

- EB-Curable Technology Delivers Adhesion to Demanding Substrates—By Tom Kauffman and Dave Whitman
- Measuring the Efficiency of UV-Curing Adhesives—By Clai Bachmann
- EB Adhesives Go Mainstream for Food Packaging—By Albert Lin, David Meloon and Jeff Hamric
- Light-Cure Adhesives for Needle Assembly—By Christine M. Salerni and James A. Serenson
- Novel Oligomers Designed to Enhance Adhesion in Laminating Adhesives—By Deborah Smith
- Plastic Bonding: Steamer Manufacturer Uses UV-Adhesive Solution—By Susan Mitchell
- Unique UV Urethane Adhesives, Coatings and Encapsulants—By Joseph F. Vaccaro
- Applying UV-Curable PSAs with Printing Technologies—By Andreas Dobmann

May/June 2003—Wood and Composites

- A Place for UV/EB in the Composites Industry Regulations—By Rita Loof
- Wood Coatings Bibliography—By J.S. Ross
- Photopolymerization of Composites: Recent Developments in Glass-Fiber and Silica-Filled Systems—By Vishal Sipani, L. Scott Coons, Bharath Rangarajan and Alec B. Scranton
- Radiometry as a Tool: Trouble-shooting Production Problems in a Kitchen Cabinet Manufacturing Plant—By Karin Efsen and Jim Raymont
- Resins for Vacuum Applied UV-Curable Clear and Pigmented Coatings—By Greg Bryant and Oscar Valdes-Aguilera
- Utilization of Photocure Techniques in Conjunction with Thermal Cure for Increasing Productivity of the Pultrusion Process—By Ellen Lackey, James G. Vaughan and Rahul Patki
- New UV-Curable Coatings for the Resilient Flooring Industry—By Dirk Bontinck and Mike Idacavage
- Photopolymerization Shrinkage and Stress in Resins and Composites—By Jeffrey Stansbury and Junhao Ge

July/August—Powder and Plastics

- Revisiting Baldor Motors—By Susan Mitchell
- History of Resin Technology and Where It Stands Today—By Walt Blatter, Syed Hasan and Susan Mitchell
- UV Curing in the Plastic Components Industry—By Dawn Skinner
- Manufacturer Saves \$70k A Year with New Dispensing and Curing Process—By Jim Victoria

- A Comparative Description: Traditional vs. UV-Curable Powder Coatings—By Mike Stuhldreher
- A New Class of Tertiary Amines—By Chau K. Nguyen, Wenfeng Kuang and Charles A. Brady
- Value-Added Radiation-Curable Oligomers from Waste PET—By Medhat S. Farahat and David E. Nikles
- Multicure Techniques for Reducing Thermal Deformation, Surface Overexposure, and Charring in Very High Intensity UV Curing—By Dennis DeCoster
- DVD Adhesives: Meeting Future Challenges—By Jeffrey F. Taylor

September/October 2003—EB Technology and UV Measurement

- Radiometry for UV Spot Curing—By John J. Kuta
- UV Measurement and Process Control Strategies for Transitioning a Process from the Lab to Production—By Jim Raymont
- Evaluation of Low Voltage Electron Beam Processors Using Thin Film Dosimetry Techniques—By Im Rangwalla and Mike Swain
- Flexible Packaging Printer Discovers EB Technology—By Rick Sanders
- Electron Beam Processing for Composite Manufacturing and Repair—By V.J. Lopata and D.R. Sidwell
- Practical Methods of UV Measurement During Process—By Mike Stephenson
- Electron Beam Curing of Coil Coatings—By Anthony J. Berejka
- Simple Techniques for Optimizing the Exposure of a UV System—By R.W. Stowe
- UV Process Control: Hardware and Software—By Jon Wilkie
- The Future for EB Technology in Graphic Arts—By David Savastano

November/December 2003—Automotive

- UV-Curable Waterborne Polyurethane Dispersions for Sealing Composite Automotive Body Panels—By Aaron Lockhart
- Automotive UV-A Curable Refinish Primers and Clearcoats: Fact or Fiction?—By Michael J. Dvorchak, Stephanie Strazisar and Hermann Bach
- UV-Cured Primer System Successful in BodyShops—By Daniel L. Maloney Jr.
- Plasma Technology Transforms Traditional Paint Line into High-Speed Compact Line—By Daniel Kaute
- Computer Simulation of 3-D UV Curing of Automotive Clearcoats—By Kevin Joesel
- Radiometry and Process Verification for 3-D UV Processing—By R.W. Stowe
- The 2-Minute Cure—By John Pfanstiehl
- UV-Curable Products with Superior Outdoor Durability—By William R. Schaeffer, Catherine Leroy and Ming Fan
- UV-Curable Basecoats and Clearcoats for Automotive Lighting—By Eileen Weber and Phil Abell