

# UNIVERSAL CHEMICALS & COATINGS

OVER 5 DECADES OF EXPERTISE



## The Many Benefits of Outsourcing Lamination to Coil Coaters

### OVERVIEW:

OEMs that manufacture laminates in-house must invest in equipment and labor to perform lamination processes. This requires a significant capital investment, ongoing maintenance, and adequate floor space. Maintaining equipment and supplies for in-house lamination processes can be costly and time-consuming, and result in poor quality due to many processing challenges.

There are alternatives that many companies may not be aware of if they have been performing in-house lamination for years. Outsourcing to a coil coater offers many benefits as UNICHEM explains the challenges of in-house lamination and advantages of outsourcing to a coil coater in this article published on [pcimag.com](http://pcimag.com), the Paints and Coating Industry, *OEMs Opt to Eliminate In-House Lamination Operations*.

### CHALLENGE:

“All kinds of things can happen during a non-continuous laminating process,” as UNICHEM explains. Performing lamination processes in-house can be a very temperamental process that may result in high scrap rates and product returns due to wrinkles, poor adhesion, or adhesion failure. Many things can go wrong with an in-house painting process that is not continuous like coil coating. Surface preparation, consistent cleaning and pretreating is important as inadequate cleanliness of the metal can cause adhesion problems. Inconsistent curing temperatures and misapplication of film thickness can also cause adhesion or flow problems. Performance or appearance problems all lead to increased scrap rates and/or returns.

### SOLUTION:

Outsourcing your lamination processes to coil coaters provides many benefits with improved quality and cost savings. Coil coaters can apply a B-stage adhesive to sheets of metal such as aluminum or steel, that is designed to activate and cure within a specific temperature range. The coil coating application is precise, controlled, and continuous for high quality and improved productivity. This eliminates many steps for a manufacturer who receives the sheet of metal with adhesive applied, so the only process they need to do is apply the laminate film and activate the bond with the right temperature. OEMs can also receive a fully laminated and painted product to eliminate in-house processing altogether.

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### RESULTS and BENEFITS:

Manufacturers experience improved productivity and reduced operational costs. Results achieved from outsourcing lamination to coil coaters include:

- **Improved quality** - reduce quality issues and scrap with a higher quality product.
- **Improved productivity** – coil coating speeds production by receiving products with adhesive applied ready to laminate or fully laminated.
- **Reduced costs** – eliminates the need to purchase laminating equipment and invest in labor.

**With improved quality, productivity, and reduced costs, outsourcing to coil coaters is a win-win scenario for manufacturers. UNICHEM offers solutions with uniBOND industrial adhesive formulated for coil coating applications and available in single or B-stage curing options. Contact us with any questions or for custom solutions to your lamination process.**

## UNICHEM

Our dedicated team consists of some of the leading industrial coating scientists and engineers in the industry, with deep technical knowledge of market and technology innovation. We offer a wide variety of products developed with cutting edge technology, as well as custom designed paints, coatings, and laminating adhesives to suit your needs.

- A Tradition of Excellence
- Insights & Innovation
- Leading Edge Technology
- A deep knowledge of Application Methodologies
- A focus on Value Creation



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