



## Case Study – Tier-One Automotive Supplier Reduced Scrap Rate, Improved Quality and On-Time Delivery

### OVERVIEW:

A manufacturer of automotive components manufactures a two-sided, heavy-gauge, control plate coil-coated with a B-stage adhesive that then needs a fiber gasket adhered via heat presses. Problems with cure response of the adhesive and inconsistent adhesion of the fiber gasket lead to high scrap rates as high as 20%. With only a handful of suppliers that had the know-how to make this type of adhesive and no solutions being identified, accepting such a high rate of scrap seemed inevitable.

### CHALLENGE:

Laminating to metal with their in-house processes often comes with challenges of pressure uniformity and outgassing, in addition to a tight operating window for cure response which can lead to poor quality and significant scrap. Over-curing the adhesive means it won't reactivate and adhere to the gasket. Under-curing could mean blocking of stacked plates or even in the coil stock. Even when outsourcing to a coil coater, this manufacturer was experiencing a challenge with the adhesive being supplied and could not find an adhesive supplier to customize the product to suit their needs.

### SOLUTION:

This manufacturer turned to UNICHEM to help them find a solution that could meet their needs including the desired reduction of their scrap rates. UNICHEM provided a solution by a custom-formulated industrial adhesive, uniBOND® that would account for the capabilities and shortcomings at the coil coater and in their own operations. This manufacturer has been a very satisfied customer ever since and could be happier with the solution they were provided with, another one of UNICHEM's uniBOND® adhesive formulations.

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OVER 5 DECADES OF EXPERTISE

## RESULTS and BENEFITS:

This Tier One Automotive supplier was able to reduce costs, increase productivity and capacity simply by finding a better adhesive solution. With this one change, they were able to achieve the following benefits:

- **Reduced cost of in-house material handling labor**
- **Drastically cut scrap costs down below 3%.**
- **Improved on-time delivery**
- **Improved product quality**

**UNICHEM offers unique solutions by formulating our uniBOND® industrial adhesive to meet custom requirements. Contact us with your adhesion problems for a solution tailored to meet your needs.**

## 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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