Adhesive for automotive composite assembly

Our partners L&L Products joined a top automotive composite customer to work on a solution to bond a rear spoiler made from carbon fibre reinforced polymer (CFRP) using a structural adhesive. The rear spoiler consists of a relatively complex design and multiple parts needing to be assembled into one high quality end product.

Not only were there structural performance requirements, but also aesthetic ones, such as avoiding shrink marks. The ultimate product needed to be black to match the black CFRP.

The team selected **IRS L&L A-K083 Black**, a product with high lap shear strength (over 20MPa) with

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sufficient modulus for the application. **A-K083** develops 80% of its final strength within 10 minutes, so fitting in with production needs. The technical service department at L&L Products in Altorf, France supported this project, having the capabilities to do lap shear, T-peel climate cycle, and fatigue tests.

The **IRSL&LA-K** series of structural adhesives are a range of high performance, room-temperature curing paste materials. They are formulated to provide durable structural bonds on a wide variety of substrates. **IRSL&L A-K083** and **IRSL&L A-K085** are two-component adhesives based on methyl methacrylate (MMA) and are specifically formulated for improved bonding to plastic substrates. Originally developed for the automotive industry, these adhesives provide superior bond strength whilst adding very little weight to the completed product. Both adhesives are fast-curing, high-strength and impact resistant. They provide primerless adhesion to most metals, thermoplastics and composites.

Contact our product specialists for more information on our structural adhesives for automotive composite bonding applications.

Supplied by:

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