



Instant adhesive for EV-battery

Project:

EV-Battery assembly in series

Start of production (SOP):

Q1 2025

Customer:

European OEM

Collano's adhesive solution

is used at several production sites in Europe and Asia.

Compact battery architecture needs new bonding solutions

Electric cars need to be lighter, offer more range and fulfill the highest safety standards. To meet these requirements, automotive manufacturers are developing more compact battery housings with a higher energy density. A key technology for this comes from Collano.

Why bonding instead of screwing?

In traditional battery housings, modules are often screwed together. This mechanical fastening method takes up space, adds weight, and reduces flexibility. Adhesives, on the other hand, enable a precise, material-friendly, and material-saving connection between the battery module and the housing. This creates space for more cells, while at the same time optimizing safety and thermal management.

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Adhesive with clear advantages

Collano has developed a 2C polyurea adhesive system specifically tailored to the requirements of automated battery production. This innovative instant adhesive brings a whole range of functional advantages to the assembly process:

- Fast curing at room temperature: ideal for temperature-sensitive battery cells.
- Structural, elastic bonding: strong in structure, flexible under mechanical stress, for improved crash performance.
- Tolerance compensation: the adhesive fits seamlessly into the joint geometry.
- Weight reduction: the adhesive replaces mechanical fasteners and saves weight.
- Assembly process: the adhesive application is integrated into the automated production process.

Summary

Collano's adhesive solution allows battery modules to be integrated more efficiently, easily and safely. The switch from screws to adhesives is not just a technological advance, it is a contribution to the e-mobility of tomorrow and to greater safety.



Innovative manufacturers of EV battery modules rely on adhesives instead of screws and rivets. This ensures a higher energy density, less weight and more safety in the electric vehicle.

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