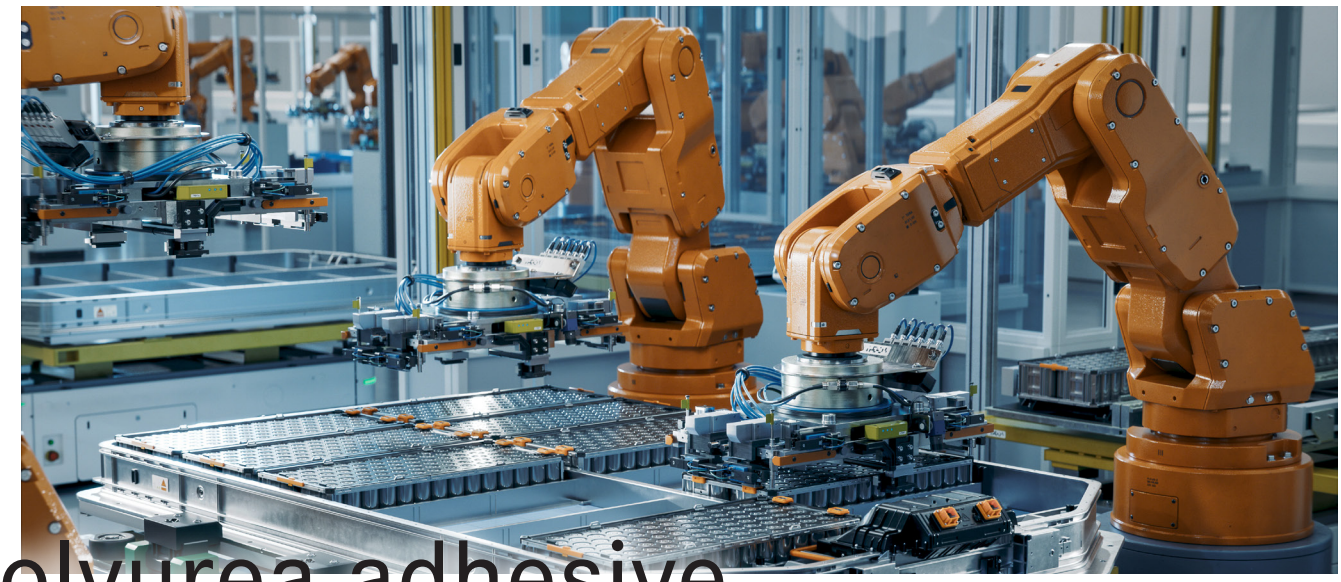


Polyurea adhesive

New speed in automotive assembly

In modern automotive production, efficiency, lightweight construction, and process reliability are among the key factors for success. This is precisely where polyurea adhesive technology comes into play: it enables bonding with cycle times that were previously reserved for welding. The result is shorter production times, lower energy consumption, and durable, elastic bonds. The ideal adhesive for structural and demanding applications in vehicle assembly.

What is polyurea adhesive?
Polyurea is formed by the reaction of an isocyanate prepolymer with a polyamine. These two-component adhesives cure within a few seconds at room temperature. What makes it special is that the formulation can be flexibly adapted to the requirements of the customer. Polyurea adhesives are applied automatically using a high-pressure process. The components are mixed under high pressure in a small mixing chamber and applied directly, ideal for robot-assisted series production.

Typical applications in vehicle engineering
- **Lightweight construction and body structure:** Replacement for welding or riveting
- **Battery technology (e-mobility):** Fixing cell modules, sealing battery housings
- **Acoustics and vibration protection:** For damping joints between components

Advantages at a glance
- **Extremely short curing time (within seconds) at room temperature:** Ideal for high-speed processes
- **Elastic and structural:** Improves crash performance
- **Wide adhesion spectrum:** Excellent adhesion to e-coating and powder coated surfaces
- **High aging and media resistance:** For durable joints
- **Savings in weight and assembly materials:** Bonding instead of screws or rivets
- **High process reliability:** Extremely stable processing

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