LORD Automotive Solutions

PROVIDING INNOVATIVE TECHNOLOGIES AND VALUE FOR OUR CUSTOMERS
HEM-FLANGE BONDING

Versilok® hem flange adhesives enable lower-cost assembly of automotive closure panels, such as doors, tail and liftgates in Body-in-White plants.
- Achieve high dimensional stability of closure panels through low temperature cure; obtain increased corrosion protection through excellent adhesion properties
- Simplify the manufacturing process by eliminating or reducing process steps
- Realize substantial cost savings due to process optimization and reduced energy consumption and labor

COMPOSITES AND PLASTIC BONDING

LORD Adhesives bond metals, plastics and composites lightweight materials replacing mechanical fasteners.
- Suitable for a wide variety of materials & substrates, improving the appearance, strength and durability of assemblies
- Increase component life through excellent environmental resistance of bonded parts
- Obtain unmatched bonding performance on metals; compatible with e-coat and powder coating processes

THERMAL MANAGEMENT

LORD CoolTherm™ Materials protect electronic components and improve thermal transfer.
- Solutions for demanding applications such as battery packs, power electronics and motors in Electric Vehicles
- Increase operating efficiency and part life with thermally conductive encapsulants, gap fillers and adhesives
- Unique combination of best-in-class thermal conductivities at low viscosities for improved heat dissipation and increased power density

ACTIVE ACTUATION CONTROL

LORD Active Actuation Technologies enable responsive valve control.
- Precisely control valve position to obtain increased power density, lower fuel consumption and reduced CO₂ output
- Highly responsive system to efficiently manage thermal energy flows through optimized fluid mixing and air flow regulation
- Can provide mechanical fail-safe system for electric motors

AUTOMOTIVE REPAIR

Fusor® Automotive Repair Adhesives provide high-quality and durable repair solutions.
- Repair, bond and seal all types of metals, plastics and composite substrates used in vehicle assembly
- Improve productivity through reduced cycle times for cure and paint; simplify processes with LORD one-size-fits-all plastic repair system
- Peace of mind with LORD repair lifetime guarantee
**RUBBER-TO-SUBSTRATE**

Chemlok® and Chemosil® high-performance Rubber-to-Substrate adhesives lead the market.

- Manage challenges of noise, vibration and sealing in the most demanding environments
- Bond a variety of elastomers and substrates with an extensive product portfolio of primers and topcoats
- Compatible with multiple bonding mechanisms for greater process flexibility

**WEATHERSTRIP & GLASS**

LORD Anti-Friction Coatings & Flock Adhesives offer unparalleled performance.

- Protect automotive sealing systems against abrasion, chemical and environmental impact while improving aesthetics
- Obtain excellent noise-reduction properties for optimized passenger comfort
- Choose from a global solutions portfolio suited for a variety of applications, substrates and surface requirements

**PV BONDING**

Post-Vulcanization (PV) bonding is used to bond cured rubber to itself – or to metal – for automotive suspension systems.

- Bond large and / or complex parts that do not fit into a press and cannot be conventionally molded (e.g. stabilizer bars, control arms)
- Reduce weight and improve performance and lifetime of assembled parts
- Decrease tooling, production time and labor costs

**IN-MOLD BONDING**

In-Mold Bonding (IMB™) Adhesives enable one-step assembly of plastics, silicones and metals during an overmolding process.

- Bond and seal between dissimilar materials to protect against air, moisture and fluid
- Realize thinner, curved designs between new material combinations for automotive components
- Increase manufacturing efficiency and throughput

**MAGNETO-RHEOLOGICAL FLUIDS AND DEVICES**

LORD Magneto-rheological (MR) Fluids devices respond instantly to varying levels of a magnetic field for controllable-energy dissipating applications, such as auxillary brakes, clutches, dampers and mounts.

- Instantly and variably dampen linear or rotary forces
- Reduce parts and complexity while increasing control
- Improve comfort, efficiency, and performance
Providing solutions that increase the value of our customers’ products

Founded 1924, LORD has been a diversified technology leader with unique expertise in chemical material sciences and mechanical dynamics who provides innovative adhesive, coating and motion management solutions, as well as magnetically responsive technology.

Our technical expertise is built on decades of experience and knowledge in engineering and science. Customers say our technical support is one of our defining strengths.

We provide value to our customers by collaborating closely with them on product design, process engineering and product performance. Our solutions lead to reduced operating costs and increased productivity.

LORD Corporation is a privately-held company with world headquarters in Cary, North Carolina. Our company has regional headquarters in Geneva and Hongkong, 18 manufacturing facilities, 9 research & development centers and more than 100 strategically located sales and support centers worldwide.

Innovative and responsive to the ever-changing market-place, LORD strongly focuses on research to bring leading-edge technology and long-term value to our customers’ businesses … Ask Us How.

**AUTOMOTIVE**
- Automotive OEM Assembly
- Tier Component Assembly
- Heat Protective Coatings · Aftermarket Repair

**ELECTRONICS**
- Component Assembly · Industrial Lighting
- Printed Electronics Industries · Energy Protection & Conductive Materials for Automotive Microelectronics

**TRUCK, BUS & OFF-HIGHWAY**
- Agriculture
- Construction & Mining Equipment
- Material Handling · Bus and Truck

**AEROSPACE & DEFENSE**
- Active Vibration Control & Balancing Systems
- Bearings & TT Straps · Isolators & Mounts
- Dampers · MRO

**INDUSTRY**
- Transportation · Construction Components
- Signs · Metal Working
- General Industry

**ENERGY**
- Oil & Gas
- Solar & Wind
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LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.