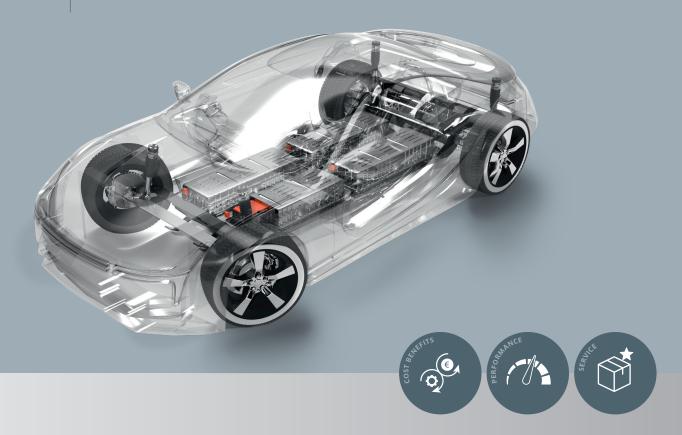


E-MOBILITY



Structural Bonding Technologies for e-Mobility Applications

LOCTITE® adhesives are providing battery manufacturers, flexibility and efficiency compared to mechanical fasteners, welding and brazing.

Combined with product, engineering, design, application and testing expertise, Henkel's full support capabilities contribute to process and cost efficiencies for large scale manufacturing of electric vehicles.

Applications







Battery Module



Battery Pack





Comprehensive portfolio of Structural Adhesive Solutions:

	LOCTITE® H8000	LOCTITE® H3500	LOCTITE® 9460	LOCTITE® UK 6800	LOCTITE® EA 9497	LOCTITE® UK 2015	TEROSON® MS 9399	LOCTITE® EA 9065	TEROSON® MS 9396
TECHNOLOGY	Acrylic	Acrylic	Ероху	Polyurethane	Ероху	Polyurethane	Silane-modified	Ероху	Silane-modified
CURING MECHANISM	2C	2C	2C	2C	2C	2C	2C	2C	1C Moisture
KEY PROPERTIES	Metal and plastic bonder High peel strength	Metal and plastic bonder Non-sag, fast fixturing	High impact resistance High shear strength	High thermal conductivity High elongation	High thermal conductivity High temperature resistance	High shear strength High elongation	Thixotropic elastic bonder Free of solvents, isocyanates, and silicones	• High strength • High modulus	High adhesion to multi-substrates Free of solvents and siloxanes
REGIONAL AVAILABILITY	NA, AP	NA	NA, EMEA, AP	NA, EMEA, AP	EMEA	EMEA	NA, EMEA	EMEA	АР



Benefits

Costs

- Increased manufacturing output and higher productivity versus mechanical fasteners
- Reduced manufacturing costs due to elimination of manual labor work and use of robot automation
- > Cost reduction through reduction in mechanical fasteners
- > Cost reduction due to high speed of automated application with standard dosing equipment



Design Flexibility

 Allows for complex geometric part designs to meet vehicle architectural needs through adhesive joints versus welding or mechanical fastening limitations



Sustainability

 Flexible automated cell that can be repurposed for design changes or new programs



Performance and Process

- Enabling of multi-substrate concepts
 (plastic metal) for modern Lightweight designs
- > High mechanical performance: high strength and high elongation at the same time
- > Thermal properties for heat sensitive applications
- > Automated, fast and high-precision process by robots suitable for mass production



Service

- > Process know-how and equipment
- > Engineering and design support

GET IN CONTACT WITH US Americas USA Henkel Corporation Madison Heights 32100 Stephenson Highway Madison Heights, MI 48071 United States Phone: (+1) 248 583 9300

Asia-Pacific China Henkel (China) Co. Ltd. No. 928 Zhang Heng Road Pu Dong 201203 Shanghai China Phone: (+86) 21 2891 8000 Europe Germany Henkel AG & Co. KGaA (Headquarters) Henkelstraße 67 40589 Düsseldorf Germany Phone: (+49) 211 797-0

https://www.henkel-adhesives.com/us/en.html

