

## LOCTITE ESB 5100

### Secure and Serviceable Protection for EV Battery Systems

#### 1 CUSTOMER CHALLENGES

- » Major automotive OEM required a material to seal lithium-ion battery pack lids to housings, protecting battery modules from environmental impact.
- » Material had to allow serviceability for easy battery repair in dedicated repair shops.
- » Fast prototyping and validation process was critical.

#### 2 RECOMMENDED TECHNOLOGY

- » Henkel developed a gasketing material, LOCTITE ESB 5100, allowing rapid production integration and fulfilling environmental testing criteria.
- » The hot-applied elastomer has unique tackiness, stays soft and is easily removable for battery serviceability.
- » The formulation is a silicone-free, corrosion-resistant material with excellent adhesion to plastics and aluminum and has self-healing properties.



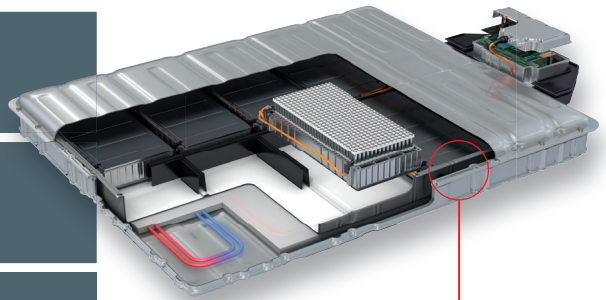
< 45 seconds  
application time



Supports production  
of > 100,000 battery  
packs annually



Solution delivered  
within 3 months



GET IN  
TOUCH  
WITH US

**Europe** // Marvin Romberg  
marvin.romberg@henkel.com // Phone +49 211 7979 594

**APAC** // Chunrong Hou (Jeffrey)  
jeffrey.hou@henkel.com // Phone +86 138 1811 8785

**North America** // Pradyumna Goli  
pradyumna.goli@henkel.com // Phone +1 951 288 1177



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#### 3 MASS PRODUCTION PROCESS SET-UP

- » Working in collaboration with the OEM and the dispensing equipment partner, the solution was delivered in less than three months and is in use for > 100.000 packs per annum.
- » The material is automatically dispensed in a continuous 8-meter bead around the flange of the battery tray or lid within 45 seconds.
- » Material allows pre-application at Tier suppliers.

#### CUSTOMER BENEFITS

Elastomer technology allows battery packs to be reopened with low force

Immediate handling after automated dispensing

Tight and reliable seal with excellent adhesion to aluminum



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