

LOCTITE PE 1000LV

E-Motor Stator Ring Potting Protection and Streamlined Production

1 CUSTOMER CHALLENGES

- » A leading automotive supplier required a reliable potting solution for the stator of its new hybrid electric motor.
- » The material had to protect the ring's internal coils from physical damage, electrical shorts, moisture, automotive fluids and thermal shock.
- » The application process had to be optimized by removing the need for vacuum de-airing before dispensing and curing.

2 RECOMMENDED TECHNOLOGY

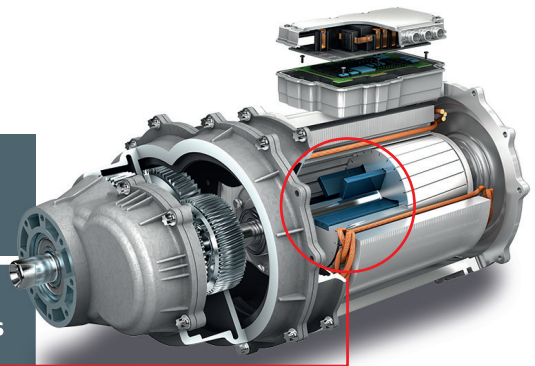
- » Henkel developed a new potting formulation, LOCTITE PE 1000LV, which passed thermal shock testing without any cracks, exhibits excellent resistance to automatic transmission fluids and provides robust vibration endurance.
- » The rheology of the potting material strikes the right balance between self-levelling and thixotropic behavior.
- » As a result, it provides optimized filling of all spaces with deep penetration of the coils without any voids.



Enables time saving of
40 minutes to one hour
per shift



Supports production of
> 100,000 e-drive systems
per year



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LOCTITE PE 1000LV

E-Motor Stator Ring Potting Protection and Streamlined Production**3 MASS PRODUCTION PROCESS SET-UP**

- » Henkel formulated Loctite PE 1000LV with significantly less bubbles, eliminating the need for vacuum de-airing before dispensing.
- » This new optimized application process allows to save approximately 40 minutes to one hour per shift.
- » The material allowed the Tier 1 supplier to increase the yield and successfully produce > 100,000 electric motors annually.

CUSTOMER BENEFITS

Reliable potting material performance

Complete coverage of the coils and filling of all gaps

Process optimization by removing need for vacuum de-airing



TO FIND OUT MORE ON HOW WE CAN HELP YOU DRIVE E-MOBILITY, VISIT: www.henkel-adhesives.com/emobility

