LOCTITE EA 9400
A Two-component Epoxy-based Fire Protective Coating Solution

1 CUSTOMER CHALLENGES
» A major global OEM required a fire protective lid coating material to delay thermal propagation in the battery pack.

» Due to the manufacturer’s large-scale production needs, processibility and high automation were key focus areas.

» In addition, the solution’s cost efficiency was an essential requirement.

2 RECOMMENDED TECHNOLOGY
» Henkel developed Loctite EA 9400, a two-component epoxy solution with strong thermal resistance.

» The product is applied through a flat stream nozzle or spray coating on the battery pack lid.

Fire resistance of 1,100°C for up to 10 minutes
Automated flat stream application
Excellent environmental resistance
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3 MASS PRODUCTION PROCESS SET-UP

» Considering all the customer requirements, Henkel ensured the success of the solution through a close collaboration with the dispensing equipment supplier.

» The solution is applied through flat stream or spray coating, which enables high automation and eliminates the need for masking.

» As a result, the solution is supporting the OEM with an annual production volume of > 50,000 battery packs.

CUSTOMER BENEFITS

Applicable through both, flat stream and spray coating

High cold flexibility

Very good adhesion to e-coat and aluminum

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