



Corrosion Preventative for Electric Vehicle Batteries

Application: Electric Vehicle Battery Housing

Location: USA

Challenge

Electric vehicle battery costs can account for almost a third of the total cost of an electric vehicle. Protecting these batteries, therefore, remains paramount to automakers seeking to reduce their cost and ensure the longevity of their design. FUCHS supports a major automaker who was developing an electric battery housing and needed to find a solution that would protect the battery against corrosion. The corrosion protection film would be applied between the battery box housing and the cover, as well as the screws to protect against galvanic corrosion, crevice corrosion, and exposure to corrosive gases.

Solution

The FUCHS team recommended the customer use ANTICORIT CPX 3230. This solvent-free anti-corrosion wax was designed to protect vehicle underbodies against corrosion. This product can be used with drop-on-demand technology, which allows for accurate and efficient application. This allows for the product to be applied without overspray exactly where you need it to overall consumption. ANTICORIT CPX 3230 possesses excellent sagging resistance, meaning that the product will stay where it is applied with minimal migration once cured. This product also contains a UV indicator within its formulation which is invisible to the naked eye but will fluoresce under UV light to allow for a visual indication where the rust preventative has been applied.

Results

Our team helped the customer find solutions from the assembly process to the application with our product. We offered the customer on-site support for testing and application tuning to ensure they had the best coating result. The efficient application of the product enabled the customer to reduce their lubricant consumption, and therefore their overall cost.

Advantages

Outstanding corrosion protection

Free of volatile organic compounds (VOCs)

Stays in place with minimal migration