



SuperCORR A maintains performance with thinner gold plating used on electrical connector contacts

Advances in gold plating technology have allowed manufacturers to reduce plating thickness on the substrate metal used for contacts in electrical connectors.

The reduction in thickness of gold coatings achieved by advances in plating technology reduces manufacturing costs as gold becomes increasingly expensive.

However reducing thickness of the gold coating can result in failures caused by corrosion. Minute irregularities in the surface of the connector's base metal leads to irregular or uneven wear causing the "high spots" on the contacts to wear through the gold plating. Using **SuperCORR A** aerosols prevents or delays corrosion and subsequent failures.

TESTING SuperCORR A IN CONNECTOR "RUB TEST"

SuperCORR A is a lubricant containing corrosion preventive compounds, and as is the case with all lubricants they will be worn off over time. A major manufacturer of connectors tested **SuperCORR A** to establish the "life" of the lubricant in a "rub test". The typical test is 20,000 cycles, i.e. unplug/plug is one cycle. The test results demonstrated that after 20,000 cycles there were no failures. Extending the tests to 200,000 cycles. The results again showed no indications of galling or scoring on the USB connectors. The USB connector looked and tested as good as new.

MILITARY USES OF SuperCORR A

As it is compliant with Mil-L-87177A specifications **SuperCORR A** is used by the U.S. Air Force to protect the intricate workings of the fighter Jet and by the U.S. Navy on electronic surveillance aircraft. Savings for the U.S. government is estimated at \$50 million per year. Commercial aviation aircraft manufacturers recommend it for electrical and close mechanical application, especially where flights are in salt fog or high humidity.

Containing extremely long-lasting, proprietary anti-corrosion inhibitors **SuperCORR A** provides a superior lubrication coefficient and protects components against moisture, wear, general and fretting corrosion, surface static electricity, corona, and other electro migration problems. The ultra-thin non-flammable lubricant film is only 7 microns (0.0007 inch) thick and is formulated without sulphates, chlorides or halogens to meet the EU RoHS directive. It is unexcelled in preventing deterioration and contamination on all surfaces of electronic equipment.

FURTHER INFORMATION

Please visit our website <https://www.envirotech-europe.com/supercorr-a> for information about other uses and applications for **SuperCORR A**.

Visit www.envirotech-europe.com/applications-and-case-studies for information about uses and applications for all EnviroTech Europe products.

For more advice, please telephone us on +44 (0) 20 8281 6370 or use our website contact form.

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EnviroTech Europe Ltd
Aissela, 46 High Street, Esher, Surrey, KT10 9QY,
United Kingdom
Tel +44 (0) 20 8281 6370
www.envirotech-europe.com | contact@envirotech-europe.com



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