

## Case Study: NASA Avionics Hangar

A NASA-owned hangar was being renovated, in order to serve as a future storage location for some highly sensitive – and you can bet, expensive – electrical equipment and avionics. In order to help safeguard the delicate apparatus, engineers specified that the flooring be capable of safely removing electrical static charge from the building. Made in U.S.A. Florock Polymer Flooring was called upon to provide a federal government approved, solvent-free, 100% solids, electrostatic dissipative – or ESD – fluid-applied floor topping.



*NASA Hangar being prepared for avionics storage.*

### The Challenge

It was imperative to ensure that the high performance ESD flooring system would be properly grounded and installed. Only then would it be capable of correctly, safely - and consistently - dissipating electrostatic charge from within the storage hangar.

### The Solution

Florock Floropoxy ESD Epoxy Flooring is a consistently performing, solvent-free electrostatic dissipative floor coating, exhibiting outstanding chemical and abrasion resistance. It can be relied on to provide ESD characteristics over the long-haul and requires no special waxes or cleaners to maintain its electrostatic dissipative properties.

### The Implementation

The Approved Florock Installer prepared the floor in the prescribed manner, by opening the pores of the concrete slab via mechanical methods: The wide open spaces received shot-blasting, while diamond grinding was used at the edges and around all equipment.

Floropoxy 100% Solids, Low Emissions, ESD Epoxy Flooring was installed according to manufacturer's instructions, including the application of grounding tapes. Once fully cured, the floor was tested with a megohmmeter. The electrical resistance from point-to-point across the surface of the floor was checked, as was the resistance from point-to-ground. Once all was found to be in compliance with ESD specifications, a certificate of compliance was issued.



*Floropoxy ESD being tested with megohmmeter.*

### The Result

The successfully installed and certified Florock Floropoxy ESD floor provides a compliant, high performance, consistently static dissipative environment for storage of sensitive NASA equipment to the satisfaction of the building supervisor. As part of an overall safety program, the ESD flooring contributes to the safety of personnel working in the hangar -- as well as taxpayers' investment.

