



## PROJECT PROFILE

*TuffRez® Impact Resistant Epoxy used for Fire and Rescue vehicle bay.*



### CUSTOMER

#### **Meridian Naval Air Station**

*Meridian, Mississippi*

### PROJECT TEAM

Roy Anderson Corp: *Gulfport, Mississippi*

A.C.E Floor Systems: *Olive Branch, Mississippi.*

### PROJECT OVERVIEW

When the concrete was poured for the new Fire and Rescue building at the Naval Air Field, the resulting slab was uneven, spalled and pitted. This surface was completely unacceptable by both the customer and the general contractor. The type of concrete used was a soft, flexing system that required no rebar reinforcing and no expansion or control joints, only cold seams. The idea was to provide a slab that would flex under the heavy load of the Fire and Rescue vehicle. Unfortunately, this posed a problem when it came time to coat the floor.

PolySpec worked closely with Roy Anderson Corp. and A.C.E Floor Systems to develop a system that would overcome the imperfections in the slab and provide the flexibility and durability needed for the area.

### KEY CONSIDERATIONS

**Flexibility:** As an alternate to a normally rigid epoxy, PolySpec recommended a polysulfide reinforce system that could provide up to 40% elongation.

**Aesthetics:** The customer expected a finish that was nothing less “glass-like” in appearance. Because of the condition of and type of the slab used additional work and product was needed to achieve this outcome.

**Durability:** The system had to withstand the wear and tear common in a vehicular bay. This includes dynamic loads from the vehicle themselves, as well as, the impact of dropped tools.

**Chemical Resistance:** The system had to be resistant to all chemicals used in the maintenance of the rescue vehicles.

### SYSTEM PRODUCTS

- **RezRok® 105:**  
Epoxy Patching Compound
- **TuffRez® Epoxy Primer:**  
Epoxy Primer for Concrete
- **TuffRez® 211:**  
Epoxy Coating, Impact Resistant
- **TuffRez® 235:**  
Polyurethane Coating, High Gloss