



PROJECT PROFILE

NovoRez[®] floor system provides protection for harsh chemicals used in paint stripping hangar.



CUSTOMER

Embraer Maintenance Services, Inc.

Nashville, Tennessee

PROJECT TEAM

Engineer: Barge Waggoner Sumner & Cannon, Inc.

Contractor: Techniquex, LLC.

PROJECT OVERVIEW

Embraer is one of the largest aircraft manufacturers in the world. The facility in Nashville, TN provides aircraft maintenance and modifications, avionics installation, aircraft painting, component/accessory overhaul and repairs, etc., to many of the nation's largest airline companies.

The Nashville facility houses two paint hangars used for striping and repainting hundreds of planes per year. Recently, the Environmental Protection Agency and the Nashville Airport Authority closed in on Embraer identifying the eroded floors as a potential environmental hazard. Frustrated from years of failures and millions of dollars spent, Embraer teamed with Barge Waggoner Sumner & Cannon, Inc, and PolySpec[®] to identify a concrete coating systems that would provide long term protection against the harsh chemicals used in paint removal.

KEY CONSIDERATIONS

Chemical Resistance: It was vital that the system provide resistance from repeated exposure to the following list of chemicals:

- Phosphoric Acid 85%
- Methylene Chloride
- Formic Acid
- Benzyl Acid 10%
- Benzyl Alcohol
- Chromic Acid 35%

Aesthetics: System had to resurface a large portion of the floor that had been eroded over time to provide a level, easy to clean surface.

SYSTEM PRODUCTS

- **PolySpec[®] 300EX:**
Performance Epoxy Primer for Concrete
- **TuffRez[®] 200:**
Epoxy Resurfacing Mortar System
- **NovoRez[®] 351:**
Concrete Coating, Acid Resistant
- **NovoRez[®] 360:**
Concrete Coating, Solvent Resistant
- **Thiokol[®] CR Joint System:**
Chemical Resistant Joint System