



## PROJECT PROFILE

*Thiokol® CR joint system provides protection for harsh chemicals 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%

**Flexibility:** The Thiokol CR Joint System provides superior adhesion and flexibility. It is designed to provide protection from aggressive chemicals, while allowing the joint to expand and contract as it was designed to do without cracking or compromising the system.

## SYSTEM PRODUCTS

- **Thiokol® 415:**  
Primer for Polysulfide Sealants
- **Thiokol® 2235SL:**  
Industrial Polysulfide Joint Sealant, Self Leveling
- **PolySpec® 196BA:**  
Industrial Joint System, Bonding Agent for Polysulfide Sealants
- **PolySpec® 196SL:**  
Industrial Joint System, Chemical Resistant Coating