



PROJECT PROFILE

NovoRez[®] Acid Resistant coating used for secondary containment of up to 98% sulfuric acid.



CUSTOMER

Sloss Industries

Birmingham, Alabama

PROJECT TEAM

Contractor: G & S, LLC. – Jemison, Alabama

PROJECT OVERVIEW

Sloss Industries Corporation is one of the nation's leading manufacturers of coke for iron and steel production. The coke division produces approximately 460,000 tons of coke annually for the blast furnace market and foundry industry. www.sloss.com

The growth of the steel industry and rise in production created a need for additional storage of sulfuric acid at the Birmingham Plant. When choosing a contractor, Sloss Industries chose G & S, LLC because of their experience and ability to meet the plant's high safety and insurance requirements. In addition, PolySpec[®] was chosen to provide the material because of our long history of success in the chemical industry, breadth of chemical coatings and linings product line, and local technical representation.

KEY CONSIDERATIONS

Crack Repair: After the concrete was poured for the new containment area, an enormous amount of hairline cracks developed in both the walls and floor. These cracks had to be filled and reinforced with a flexible system to insure the integrity of the containment area over time.

Chemical Resistance: The system had to be resistant to up to 98% sulfuric acid at temperatures of up to 120 deg F.

SYSTEM PRODUCTS

- **RezRok[®] 106:**
Epoxy Patching Compound, Fast Cure
- **PolySpec[®] 300EX Primer:**
Epoxy Performance Primer for Concrete
- **Thiokol[®] 2235M:**
Industrial Polysulfide Joint Sealant, Non-sag
- **Thiokol[®] FEC 2234:**
Concrete & Steel Coating/Membrane, Flexible Epoxy
- **NovoRez[®] 351:**
Concrete Coating, Acid Resistant