CHASE NEDROW INDUSTRIES

CASE STUDY

Cement Burner Pipe

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Customer

Lehigh Cement, Edmonton,
Alberta Canada

Overview

- **Application:**
  Rotary Kiln Cement BurnerPipe/Nozzle
- **Substrate:**
  Refractory
- **Goal:**
  Improve Burner Pipe Service Life and Protect Refractory.

Project Description

Installation of Emisshield™ to improve the life of a cement burner pipe occurred at Lehigh Cement in Canada. Free water was removed from a high alumina refractory castable following manufacturer's recommended bake-out. After bakeout, the burner pipe refractory was coated with Emisshield, high temperature refractory coating. The burner pipe was exposed to temperatures of 900°C to 1300°C on the hot face of the refractory. Typical burner pipe service life is 1.5 to 2 months.

Emisshield®

Emisshield™ Benefits

Improved service life from 2 months to 5 months doubling the life of the burner and reducing downtime for repairs.

Reradiates Heat

On refractory castable to protect from temperature excursions (surface cooling).

Thermal Shock Resistance

Reduces impact of thermal cycling on refractory.

Anchors Protected

Helps protect embedded metal anchors from heat damage.

Resists Adherence of Clinker/Ash.

Corrosion/Alkali Resistance

Improved corrosion/alkali resistance and abraison resistance.