

ARMORMAX 70 SR refractory perimeter Heat treating car bottom furnace deck

Case study



EQUIPMENT

- 8.5m x 3m (25'L X 9.9'W) car bottom furnace deck

PRODUCT

- ARMORMAX 70 SR shock-resistant, high needle-bearing 70% alumina castable

APPLICATION

- Heat treating furnace in a seamless rolled ring facility
- Operating temperature of 733°C (1350°F)
- Thermally cycled on a regular basis

INSTALLATION

- March 2013: ARMORMAX 70 SR perimeter was cast in place in three sections
- Competitive 60% alumina castable with 3% needles cast in two sections adjacent to ARMORMAX

RESULTS

- **August 2013:** Competitive 60% alumina castable perimeter cracked and spalled after 5 months in service
- Customer removed the sections of competitive castable in two furnaces and replaced it with ARMORMAX 70 SR
- ARMORMAX 70 SR appearance is unchanged since the **March 2013** installation
- Customer is extremely pleased with ARMORMAX 70 SR durability and thermal shock resistance

Inquiries: email us at allied@alliedmin.com or contact your Allied sales representative

alliedmineral.com



ARMORMAX 70 SR perimeter adjacent to competitive 60% alumina castable



Closeup of ARMORMAX 70 SR after 5 months



Spalling and cracking with competitive castable