



## CASE STUDY:

### TITLE

### 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

### RESULTS

- 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 was unchanged since installation
- Customer is extremely pleased with ARMORMAX 70 SR durability and thermal shock resistance



ARMORMAX 70 SR perimeter adjacent to competitive 60% alumina castable



ARMORMAX 70 SR after 5 months



Spalling and cracking with competitive castable

Updated – 3/2/18

Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

