



CASE STUDY:

ARMORMAX 70 SR REFRACTORY PERIMETER HEAT TREATING CAR BOTTOM FURNACE DECK

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

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