

# ARMORMAX® 70 SR hearth, sill and jamb applications in box-type forging furnaces

Case study



## EQUIPMENT

- Various box-type forging furnaces

## PRODUCT

- ARMORMAX 70 SR precast shapes
- ARMORMAX 70 SR cast in situ

## APPLICATION

- Shapes: 12' x 12' box furnaces operated at 2200°F
- Cast in situ: 12' x 16' box furnace operated at 2350°F

## INSTALLATION

- Precast jamb, sill and hearth shapes installed at intervals since July 2013, replacing a 60% alumina plastic and low-cement castable
- Sill was cast in forge furnace November 2012 during a new furnace installation

## RESULTS

- Jamb and sill shapes have required no repairs and have shown few signs of cracking and abrasion
- Forge furnace sill has required no repairs since the original cast while resisting scale attack and mechanical abrasion

## CONCLUSIONS

- The use of precast jamb, sill and hearth shapes has resulted in significant reductions in maintenance repairs and man-hours. The extended performance of ARMORMAX has more than offset the cost of the shapes.
- ARMORMAX 70 SR has also extended performance in pier blocks and a car bottom furnace deck refractory perimeter.
- The performance of the ARMORMAX 70 SR sill (cast in situ) has led to its use in furnace jambs and a car deck perimeter with excellent results.

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