



Installation Story #20 Foamfrax® Insulation

Industry:	Steel
Location:	Midwest United States
Installation Date:	January 2003
Operating Temperature:	2300°F (1260°C)
Scope of Job:	Foamfrax Grade II Veneer over Plastic Refractory Continuous Re-Heat Furnace



Prior to the installation of the Foamfrax Grade II Insulation, all loose refractory was removed and the surface was cleaned. Dilute Fiberstick™ Refractory Cement was sprayed on the plastic refractory surface and Foamfrax Grade II Insulation was applied 2" thick on overhead surfaces and 3" on wall surfaces. Care was taken to not allow the dilute Fiberstick Cement to dry prior to installing the Foamfrax Insulation. Note that the pictures provided are after 9 months of service.



A veneer of Foamfrax Insulation over a conventional refractory furnace lining offers significant energy savings, particularly in applications with high operating temperatures and dense linings. In most cases, the payback period for this type of installation is less than 6 months. Depending on the cost of natural gas, the payback period can be considerably shorter.

With the installation of Foamfrax Grade II Insulation, the following customer benefits were realized:

- **Turnkey Installation Service**

- A specially trained Unifrax distributor/contractor was able to supply materials, equipment, and installation as a complete package.

- **Energy Savings**

- The Foamfrax Insulation veneer significantly reduced the overall heat loss and heat storage of the furnace refractory, resulting in more efficient operation.

- **Installation Speed**

- With installation rates in excess of 1000 board feet per hour, the reheat furnace was available to go back in service within a very short period of time.