



INNOVATIVE SOLUTION
FOR ENERGY EFFICIENCY



EMISSPRO[®] SERVICE PACKAGE:

emisspro[®] coating service provides superior coating quality by high expertise service team with excellent quality control to maximize furnace thermal efficiency and customer benefit;

- Furnace performance prediction and evaluation
- Refractory installation and maintenance
- Furnace refractory coating
- Supervisory service

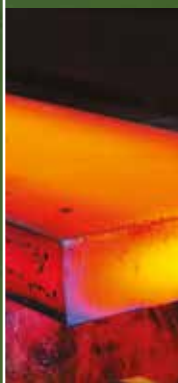


PROPERTIES	TEST METHODS	VALUE
Emissivity	Pyrometry	0.80-0.95
Surface strength	ASTM C1624-05 (2010)	>20N
Adhesion pressure	ASTM D3359-09	>1,000 psi
Thermal shock resistivity	Alternate heat/cold	12 Cycles

Petrochemical and Refinery



Steel and Metal Production



Substantial improvement of furnace thermal efficiency



Reduce heating time in furnaces

BENEFITS OF USING EMISSPRO®

Turn industrial furnaces to green combustion; less fuel gas consumption and less emission of green house gas (GHG)

Prolong service life of furnace lining materials

Cost effectiveness

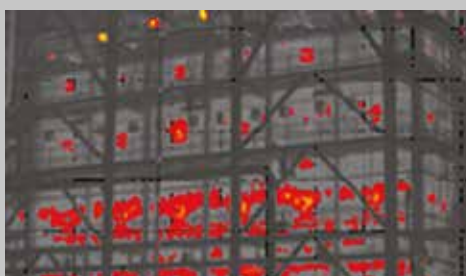
PAST SUCCESS

Type: Olefins Plant
Capacity: 1,200,000 Ton/Year
Coated: 12 Furnaces
Date applied: July 2009
Fuel saving: 7,500 Ton/Year
GHG reduction: 20,000 Ton/Year

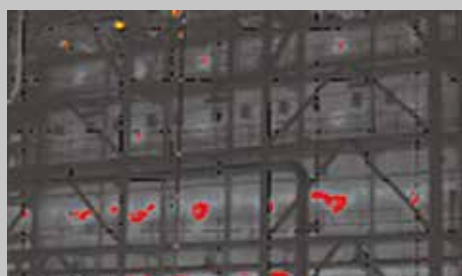
Type: Olefins Plant
Capacity: 1,700,000 Ton/Year
Coated: 8 Furnaces
Date applied: February 2012
Fuel saving: 9,000 Ton/Year
GHG reduction: 25,000 Ton/Year

Type: Hot rolling steel plant
Capacity: 400,000 Ton/Year
Coated: 1 Furnace
Date applied: July 2013
Fuel saving: 600 Ton/Year
GHG reduction: 1,650 Ton/Year

Type: Ceramic tile production
Capacity: 20,000,000 M²/Year
Coated: 8 Furnaces
Date applied: April 2012
Fuel saving: 525 Ton/Year
GHG reduction: 1,450 Ton/Year

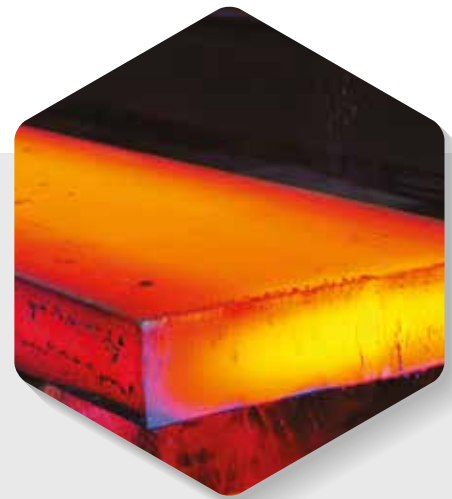


BEFORE



AFTER

INFRARED THERMOGRAM OF AN OLEFINS FURNACE



EMISSPRO® APPLICATIONS:

emisspro® high emissivity coating is used in high temperature industrial applications such as fired heaters, furnaces, refinery and petrochemical industries, etc.

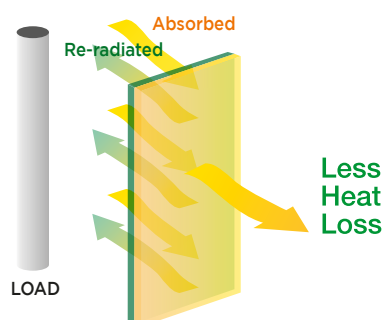
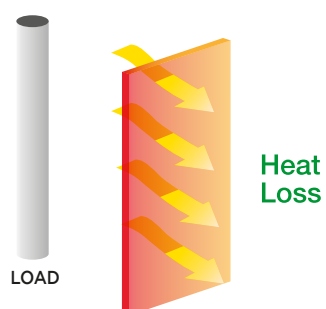
The various substrates are applicable with high emissivity coating such as firebrick, insulating firebrick, high alumina brick, castable refractory, plastic refractory and ceramic fiber.

- **PETROCHEMICALS AND REFINERY**

Olefins production process, Refinery feed pre-heating process, Monomer production process and Reforming process

- **STEEL AND METAL PRODUCTION**

Reheating process, Annealing process



ABSORBED
& RE-RADIATED
ENERGY



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