

S L U T I O N S



PROJECT:

Old Slag Dumping Yard-Wall

OWNER: Qatar Steel

YEAR: April 2013



The Details

PROJECT CONTRACTOR:

Apollo Industrial Services

PROJECT ENGINEER:

Qatar Steel

MARKET/ENVIRONMENT:

Steel

SUBSTRATE:

Concrete

PRODUCT USED:

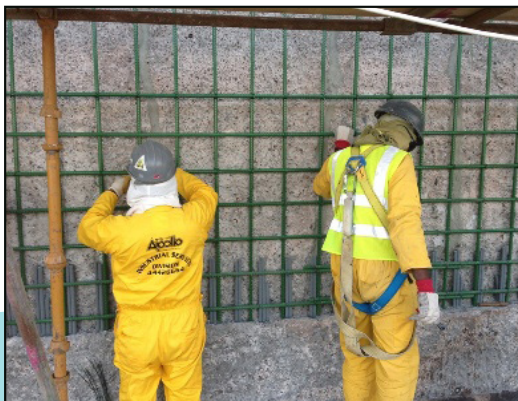
Five Star Structural Concrete® HTR Shotcrete

SIZE OF PROJECT:

4,500 Bags of product: Wall size area: 80M x 4.5M x 0.1M



The Challenge – As the original Old Slag Dumping Wall was in obvious need of repair (i.e. exposed rebar), the challenge here was to effectively renovate the wall without major reconstruction.



The Solution – Five Star Structural Concrete® HTR Shotcrete is a unique high temperature tolerant concrete repair material which is applied by dry process shotcrete. As it gains strength rapidly and can be exposed to 1,000°F (538°C) in three hours and up to 2,400°F (1,316°C) after a 7-day curing procedure, it is an ideal product to be applied to this vertical wall. Five Star Structural Concrete® HTR Shotcrete was chosen for its ability to secure large areas with a high strength, sprayable concrete.



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FIVE STAR STRUCTURAL CONCRETE® HTR

High Early Strength Repair for High Temperature Exposure

PRODUCT DESCRIPTION

Five Star Structural Concrete® HTR is a unique high temperature resistant concrete repair material which can be pumped or poured into place. Five Star Structural Concrete® HTR gains strength rapidly and can be exposed to 1,000 °F (538 °C) in six hours and up to 2,400 °F (1,316 °C) after a 7-day curing procedure.

ADVANTAGES

- | | | |
|---|---|--|
| <ul style="list-style-type: none">• Thermal shock resistant• High temperature resistance | <ul style="list-style-type: none">• Rapid strength gain• Resistant to sulfates | <ul style="list-style-type: none">• Dry process shotcrete application• Excellent freeze/thaw resistance |
|---|---|--|

USES

- | | |
|--|---|
| <ul style="list-style-type: none">• Areas of high temperature exposure• Thermal cycling up to 2,400 °F (1,316 °C) | <ul style="list-style-type: none">• Rapid repairs during shutdowns• Coker, kiln, and foundry repairs |
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FIVE STAR® SERVICES

- Design-A-Spec™ engineering specification assistance
- Technical on-call center with field and project experienced staff
- Field support representatives for on-site consultation
- Corporate research laboratory available to customize products for unique applications



For worldwide availability, additional product information and technical support, contact your local Five Star® licensee, distributor, local sales representative, or you may call the Five Star Products' Engineering and Technical Service Center at 1-800-243-2206 (from the U.S.) or +1 203-336-7900 (outside the U.S.).



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