

S L U T I O N S



PROJECT:

*Throughput Increase:
61.2 DKTPD (Chile)*

OWNER: BHP BILLITON

YEAR: 2011-2012

The Details

PROJECT CONTRACTOR:

Besalco Montajes

PROJECT ENGINEER:

Bezanilla & Company

MARKET/ENVIRONMENT:

Mining

SUBSTRATE:

Concrete

PRODUCT USED:

Five Star® DP Epoxy Grout

SIZE OF PROJECT:

125 Kits Five Star® DP Epoxy Grout



The Challenge — grouting the mainframe of a rotating cylinder mounted on a concrete slab.

The Solution — **Five Star® DP Epoxy Grout**, known for its superior vibration dampening of rotating equipment, its high strength, superior creep resistance and fluid consistency was chosen for this project.

Because the mainframe exceeded 4m in length, expansion joints were installed and the frame was then filled with Five Star® DP Epoxy Grout. The grout was prepared using a paddle mixer. Working time was 45 minutes and 8 workers participated.



FIVE STAR

Specified by the World's Best™

DP EPOXY GROUT

Dual-Purpose, Deep Pour Precision Grout; Standard/High Flow

PRODUCT DESCRIPTION

Five Star® DP Epoxy Grout is the only expansive, non-shrink, low exothermic epoxy system for machinery grouting. This versatile, dual pur-pose product is formulated for single, large volume placements and may be used as thin as 1/2 inch (13 mm) in depth. Five Star® DP Epoxy Grout is a three component, 100% solids, solvent-free system formulated to provide high-strength and superior creep resistance combined with the highest effective bearing area. Five Star® DP Epoxy Grout exhibits positive expansion when tested in accordance with ASTM C 827.

ADVANTAGES

- | | | |
|---|---|---|
| <ul style="list-style-type: none">• Permanent support for machinery requiring precision alignment• Low exothermal properties with early strength development• Long working time | <ul style="list-style-type: none">• Solvent-free clean up• Adjustable flow for various conditions• Expansive, non-shrink per ASTM C 827• Superior creep resistance | <ul style="list-style-type: none">• Chemically resistant• 95% effective bearing area (EBA) when following proper grouting procedures• Excellent adhesion to steel |
|---|---|---|

USES

- | | | |
|--|--|---|
| <ul style="list-style-type: none">• Large volume applications• Foundation rebuilds and skid mounted equipment• Precision alignment under dynamic load conditions | <ul style="list-style-type: none">• Vibration dampening for rotating equipment• Aggressive chemical environments• Support of tanks, vessels and rotating equipment | <ul style="list-style-type: none">• Installation of anchors and dowels• Wind turbine baseplates• Available for Nuclear Safety Zone Applications¹ |
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¹Compliant with NRC 10CFR50 Appendix B and ASME NQA-1 Quality Programs

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.).

Five Star Products, Inc.

750 Commerce Drive • Fairfield, CT 06825-5519 USA
Phone: +1 203-336-7900 • Fax: +1 203-336-7930

FiveStarProducts.com



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