

S L U T I O N S

PROJECT:

*Ashkelon Power Station
(fueled by natural gas)*

OWNER: Dorad Energy*, Israel

YEAR: 2013



The Details

PROJECT CONTRACTOR:

HAGIVA Y.H. LTD.

PROJECT ENGINEER:

Nisim Attia

MARKET/ENVIRONMENT:

Power

SUBSTRATE:

Concrete

PRODUCT USED:

Five Star® Fluid Grout 100

SIZE OF PROJECT:

75,000 KG of Five Star® Fluid Grout 100

The Challenge – Construct two “blocks” each with a capacity of approximately 400 megawatts to incorporate six aeroderivative gas turbines with one turbine for enhanced production of electricity with maximum operating flexibility.

The Solution – Five Star® Fluid Grout 100 provided the necessary precision alignment and high strength for the installation of these turbines.

By adding these aeroderivative gas turbines, Dorad’s environmentally-friendly power plant is ensuring compatibility with the Standards determined by the Authority, as well as compatibility with the consumption regime of the Company’s customers.

*Dorad Energy Partners: EDELCOM LTD 18.75%, Group A. Dori Energy Infrastructures Ltd. 18.75%, Zorlu Enerji Elektrik Uretim A.S. 25%, Eilat-Ashkelon Infrastructure Ltd. 37.5%



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FLUID GROUT 100

High Performance Precision Non-Shrink Fluid Grout

PRODUCT DESCRIPTION

Five Star® Fluid Grout 100 is the industry's leading cement-based, nonmetallic, non-shrink fluid grout for supporting machinery and equipment. It is formulated with Air Release technology that combines high performance with the greatest reliability. When tested in accordance with ASTM C 827, Five Star® Fluid Grout 100 exhibits positive expansion. Five Star® Fluid Grout 100 meets the performance requirements of ASTM C 1107-02 Grades A, B and C, ASTM C 1107-07 and CRD-C 621-93 specifications for non-shrink grout over a wide temperature range, 40° F - 90° F (4° C - 32° C).

ADVANTAGES

- | | | |
|--|--|---|
| <ul style="list-style-type: none">• Air release technology per ACI 351.1 R• Placement within tight clearances down to 1/2 inch• High 1, 7, 28 day strength | <ul style="list-style-type: none">• Permanent support for machinery requiring precision alignment• Does not contain gas generating additives, such as aluminum powder | <ul style="list-style-type: none">• Non-shrink from the time of placement• 95% Effective Bearing Area (EBA) is typically achieved following proper grouting procedures |
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USES

- | | | |
|---|--|---|
| <ul style="list-style-type: none">• Grouting clearances to 1/2 inch• Grouting of anchors and dowels• Non-shrink grouting of structural steel and precast concrete | <ul style="list-style-type: none">• Grouting of machinery and equipment to maintain precision alignment• Preplaced aggregate grouting | <ul style="list-style-type: none">• Support of tanks and vessels• Available for Nuclear Safety Application Ready¹ |
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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

¹Compliant with NRC 10CFR50 Appendix B and ASME NQA-1 Quality Programs



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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Five Star Products, Inc.

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

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