

S L U T I O N S



PROJECT:

142 MW Wind Farm,
Tumbler Ridge - BC, Canada

OWNER: Capital Power

YEAR: 2012

The Details

PROJECT CONTRACTOR:

Eagle West Wind Energy / Mortenson Canada Corporation

PROJECT ENGINEER:

Capital Power

MARKET/ENVIRONMENT:

Wind Power

SUBSTRATE:

Concrete Prepared by High-Pressure Water Blasting

PRODUCT USED:

Five Star® DP Epoxy Grout

SIZE OF PROJECT:

79 x 1.8MW Wind Turbine (VESTA) baseplates using approximately 474 Units of Five Star® DP Epoxy Grout

The Challenge – Grouting 79 towers in cold temperatures at a site exposed to extreme conditions.

The Solution –

Able to meet this installation's demanding environmental challenges, **Five Star® DP Epoxy Grout** was chosen for its high strength, superior creep resistance and highest effective bearing area properties.

The turbine base of each tower, ranging from 95 and 100 meters tall, was tented and heated before and post grouting according to Five Star® Cold Weather Grouting Guidelines.

Normal operations will resume in 2013.



FIVE STAR
Specified by the World's Best™

FiveStarProducts.com

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 purpose 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

- Permanent support for machinery requiring precision alignment
- Low exothermal properties with early strength development
- Long working time
- Solvent-free clean up
- Adjustable flow for various conditions
- Expansive, non-shrink per ASTM C 827
- Superior creep resistance
- Chemically resistant
- 95% effective bearing area (EBA) when following proper grouting procedures
- Excellent adhesion to steel

USES

- Large volume applications
- Foundation rebuilds and skid mounted equipment
- Precision alignment under dynamic load conditions
- Vibration dampening for rotating equipment
- Aggressive chemical environments
- Support of tanks, vessels and rotating equipment
- Installation of anchors and dowels
- Wind turbine baseplates
- Available for Nuclear Safety Zone Applications¹

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.).

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