



CE815 Epoxy Grout installation

CASE STUDY – FASTRAC CE815 EPOXY GROUT

SOYBEAN CRUSH EXTRACTOR – PHASE I: LOW CLEARANCE GROUTING

FasTrac CE815 Epoxy Grout is a revolutionary, three-component, 100% solids high-performance epoxy machinery grout. It is characterized by low dust, high bearing area, low exotherm and fast cure. **CE815 Epoxy Grout** can be pumped utilizing its excellent high flow qualities for improved workability and placement. **CE815 Epoxy Grout** is ideal for high stress applications such as: Natural Gas Transmission, Oil Refining, Chemical Processing, Pulp & Paper and other critical machine base plate grouting. New process equipment installations or re-grouting of existing Rotating Equipment subject to chemical attack and extreme vibration are ideal uses for **FasTrac CE815 Epoxy Grout**.

The contractor successfully completed this difficult grout installation using **CE815 Epoxy Grout** on 25 Flowserve Pump Bases. The level of difficulty was increased, due to having to navigate around other trades, scaffolding and the sporadic spacing of the pumps themselves. There was considerable distance between the grout mixing station and each pump base. Thankfully because of **CE815 Epoxy Grouts** extended working time and exceptional flow characteristics, it was possible to grout all the pump bases in a timely manner. The grout crew was not rushed or caused unnecessary stress of working with material having a shorter pot life and fear of the epoxy grout setting up too quickly.

PROJECT DETAILS – PHASE I

25 Flowserve Pump Foundations

Dimensions of: 7 1/2 Ft x 3 Ft

Designed Grout Clearance - 3 in

Actual grout clearance depth – 2 in

Temperatures During Grout Installations

Ambient Air: 73°F

Concrete Temperature: 65°

Steel Base Temperature: 68°

Part A – Resin: 72°

Part B – Hardener 72°

Part C – Aggregate 69°

The installation crew grouted 25 Pumps during Phase I of this project, using a total of 260 Cu. Ft. of **CE815 Epoxy Grout** - 2 Cu. Ft. Units.

FASTRAC CE815 EPOXY GROUT

HIGH-FLOW, HIGH-STRENGTH PUMPABLE EPOXY GROUT

Office: 610-647-2150
Warehouse: 610-650-0002

300 National Road, Suite 100
Exton, PA 19341

energytechsys.com
sales@energytechsys.com



THE DECISION TO USE FASTRAC CE815 EPOXY GROUT WAS BASED ON MANY DIFFERENT FACTORS

1) Tremendous Value

FasTrac CE815 Epoxy Grout offers a tremendous amount of value to the facility owner. The decision to use FasTrac CE815 Epoxy Grout over the previously specified product by the end user, represented a 40% savings in cost of materials to this soybean process facility owner.

2) Construction Schedule

During the construction phase, grout work was required to be done as quickly as possible to contribute to a faster schedule and a quicker completion date. As a result, CE815 Epoxy Grout was chosen to achieve the shortest turnaround time between grouting operations.

3) Weather Conditions

The project's location in Ohio experienced variable weather conditions in late summer. While the installation of the epoxy grout took place under roof, the building lacked heat, so temperatures inside the work area were far more susceptible to outside temperature changes. Grouting to be successful in these conditions, required special preparation, handling, and installation techniques that were executed by the contractor performing the grout work on-site.

THE SUCCESSFUL GROUT INSTALLATIONS IS DIRECTLY ATTRIBUTED TO:

- A professional grouting contractor who is well prepared with a plan and the proper equipment to complete the job.
- Understanding the conditions, requirements, and using the correct process to place grout under the equipment.

Having a sizable grout crew with adequate labor onsite provided a consistent flow of material and streamlined the grout installation process, resulting in time savings, increased efficiency, reduced waste, and lower cleanup times. By decreasing the turnaround time between grouting operations, the contractor was able to complete the grout installation efficiently within the allotted amount of time.

AS A RESULT OF SELECTING CE815 FOR THIS INSTALLATION, THE CUSTOMER ENJOYED A NUMBER OF ENHANCED OPERATIONAL & PERFORMANCE BENEFITS.

CE815 Epoxy Grout does not require reducing aggregate to improve grout flow, which reduces the number of units needed and lowers material costs.

The superior flowability of CE815 Epoxy Grout was the key to the speed and increased efficiency of installing the grout under all 25 pump bases.

CE815 Epoxy Grout is an excellent grout to use when installing by bucket pouring or via a grout pump.



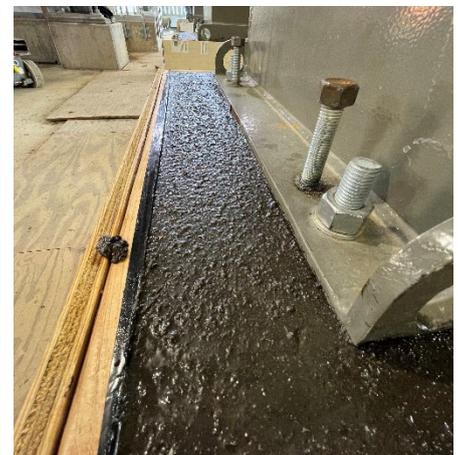
FasTrac CE815 is conveniently packaged in pre-measured units. Pour Hardener – Part B into Resin Pail - Part A and power mix thoroughly for 3 Minutes with a Jiffy "ES" mixer paddle on low speed until material is a uniform consistency. Keep mixing blade on the bottom of pail to avoid introducing air into the liquid components.



FasTrac recommends 2" of clearance between top of concrete and the bottom of the pump base. When 2" of clearance is not possible then proper preparation is essential, such as having a heated mixing station, along with heating of concrete foundation blocks, grout materials and equipment.



The Soybean Crush facility owner chose to go with FasTrac CE815 Epoxy Grout for holding all of these critical pump bases in permanent, precise alignment for years to come, leading to a long life cycle of reliability, reduced equipment downtime and costly maintenance. With limited clearance under the pump bases, a high flow material like the CE815 is an essential component of a successful grout installation. FasTrac CE815 has superior flow characteristics and is directly comparable to other well-known brand epoxy grouts on the market, except at a much lower material cost to the facility owner.



The CE815 Epoxy Grout's excellent side to side flow and self-leveling properties while needing limited head pressure, allowed for highly efficient placement despite a sporadic layout of the rotating equipment and pump bases. The CE815 extended working time, allowed the contractor plenty of time to place the grout under each of the pump bases, despite having to transport the grout a lengthy distance between the mixing location and pump bases themselves. The combination of FasTrac's CE815 Epoxy Grout and a professional grouting contractor turned a difficult environment into a routine grout installation.



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ABOUT FASTRAC CONSTRUCTION PRODUCTS

With more than 30 years' experience in developing and manufacturing cutting edge products, FasTrac Construction Products is known for performance and consistency. When combined with our commitment to excellent customer service you have a winning combination that brings value to the construction industry. FasTrac products include rapid strength cements and concrete, repair mortars, high performance grouts, a full range of epoxies, mixing systems, HFST installation, and our latest innovation – Hybrid Polymer Concrete. www.fastracproducts.com



ABOUT ENERGY TECH SYSTEMS

Established in 1992, Energy Tech Systems continues to be your primary source for industrial machinery grouts, natural gas engine & compressor parts and epoxy pipe supports. ETS continues to be the largest and most experienced supplier of FasTrac Construction Products epoxy grouts in the Northeastern United States. Our mission since inception has been to satisfy customer demands with great quality products and exceptional service, a recipe that has proven successful for over 30 Years. www.energytechsys.com



ABOUT PSC CRANE & RIGGING

In 1933, Earl F. Sever Sr., had the foresight to create a business that would withstand the turbulent times of the Great Depression. Through hard work and determination, Earl took the initiative to found Piqua Steel Company, now known as PSC Crane & Rigging. Utilizing cutting-edge tools, state-of-the-art equipment, and expertly trained/certified personnel, the mission at PSC Crane & Rigging is to continually invest in innovation and operational practices that give our customers back more of what they want most: time. At PSC, there's no job too big or idea too complex. We're driven by an understanding of the value of efficiency—doing it right the first time, every time—which prevents disruptions and allows our customers to get back to work, family, and life. www.pscind.com

