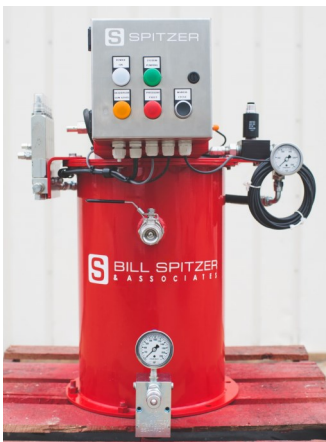




BILL SPITZER & ASSOCIATES

O: (713) 937-8977

<http://www.billspitzerassoc.com/>



Bill Spitzer & Associates Increased Grouting Efficiency to Save the Client Time and Costs

Date: July to September 2021

Location: Gulf Coast Texas Petrochemical Facility



Escoweld 7505E/7530 Epoxy Grout:

3-Component and highly flowable epoxy grout. This epoxy grout can be pumped and has one of the lowest thermal expansion rates of 14.6×10^{-6} . For this project, compressive strengths surpassed 15,000 psi.

On-Site Technical Grouting Guidance:

A Bill Spitzer & Associates (BSA) subject matter expert was on-site to supervise the mixing and placing of Escoweld epoxy grout. Additionally, reviewed the site for compliance with API 686, ACI 351, and facility specifications. Hot temperatures were a concern; however, those were avoided by tenting and cooling the equipment system environment and grout. After one day, BSA realized wasted time in the grout mixing and placing process. A new procedure was introduced and followed to increase the efficiency and show the value of BSA on-site guidance for the contractor.

Bill Spitzer & Associates Values Provided

- Escalated hourly units placed by 30%
- Saved 98.1 hours of labor
- Advised new grouting procedure
 - * Broadened schedule flexibility
 - * Created economical & efficient solutions
 - * Reinforced jobsite safety & ergonomics

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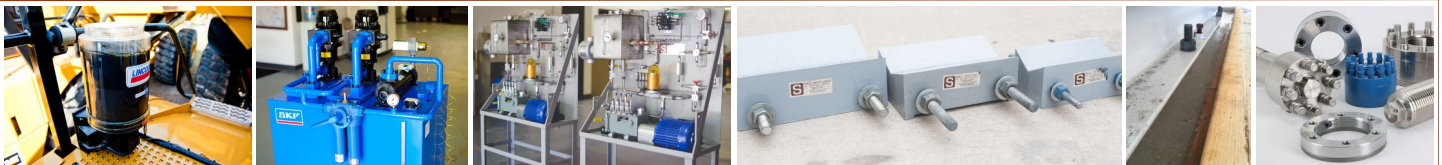
CORE PRODUCT PARTNERS:



Wilson Anchor Bolt Sleeve



LUNETTA



BSA On-Site Aspects:

- Total Project - 609 ft³ or 254 units
- Manpower - 9 men / bucket pouring
- Initial Output - 16.8 ft³ per hour
- BSA Modified Output - 24 ft³ per hour
 - 7.2 ft³ Efficiency Improvement
- Total Time Saved - 98.1 hours

