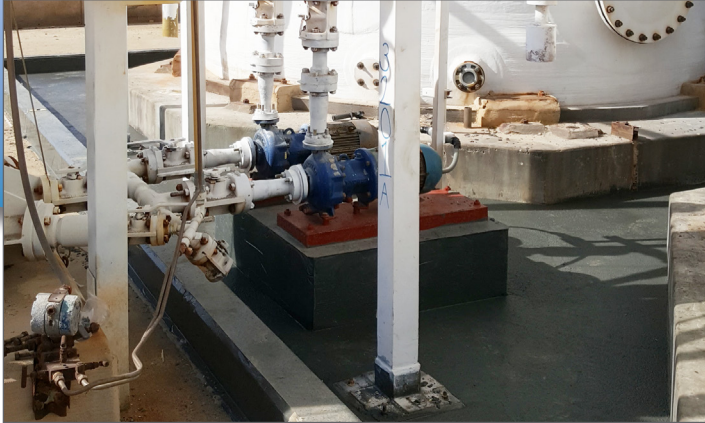


S L U T I O N S



PROJECT:

CalEnergy Containment Pit 3

OWNER: CalEnergy

DATE: January 25, 2017

The Details

PROJECT CONTRACTOR:

Brahma Group

PROJECT ENGINEER:

Roberto Agustin, CalEnergy

MARKET/ENVIRONMENT:

GEOTHERMAL

SUBSTRATE:

Concrete

PRODUCTS USED:

Five Star Novolac Structural Concrete® & Five Star® Pressure Port Crack Repair

SIZE OF PROJECT:

670+ units of Novolac Structural Concrete® and 5 kits of Pressure Port Crack Repair



The Challenge — CalEnergy has been battling the effects of HCL in their containment pits for many years. They have tried numerous coatings that never lasted more than a few years at best. Concrete had eroded and crumbled. Steel reinforcement was exposed. Containment walls, sump pits, pump pedestals, containment floor and curbing were all compromised and in decline after years of failed protection.

The Solution — After multiple meetings, site visits and product demonstrations with CalEnergy and bidding contractors, Five Star Novolac Structural Concrete® was specified for the rehabilitation of “Containment Pit #3.”

The entire floor, pump pedestals (6), sump pits (2), curbing and containment wall were all coated in Novolac Structural Con-

crete®. The floor was poured at a depth of 1” and the remaining pedestals, sump pits and containment curbing were formed and poured at ½” thickness. The large containment pit wall was formed and poured at a ¾” thickness after injecting the cracks with Five Star® Pressure Port Crack Repair.

ABOUT THE PROJECT OWNER: CalEnergy Generation, based in Calipatria, California, is an international leader in the development and production of energy from diversified fuel sources including geothermal, natural gas and hydroelectric.

CalEnergy Generation was founded in 1971 to provide consulting and development services for geothermal power production facilities in North America. Today, CalEnergy Generation facilities generate more than 1,290 megawatts of electric power and steam-producing facilities in the United States and the Philippines.



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NOVOLAC STRUCTURAL CONCRETE®

Highly Chemical Resistant Permanent Repair Material

PRODUCT DESCRIPTION

Five Star Novolac Structural Concrete® is a three component, 100% solids, highly chemical resistant epoxy repair material for the construction or repair of curbs, trenches, floors and pads. Five Star Novolac Structural Concrete® is designed for aggressive chemical environments that may be exposed to concentrated acids, alkalis, corrosives or solvents.

ADVANTAGES

- High chemical resistance
- Excellent impact and wear resistance
- Versatile application
- Excellent bond strength

USES

- Horizontal concrete repairs
- Setting mortar for acid resistant brick and tile
- Concrete pads
- Formed vertical repairs
- Precast trenches
- Flooring surfaces

Order Info

SKU 34900 Unit Yield: 0.44 cubic feet (12.5 L)

PRESSURE PORT CRACK REPAIR

Complete Epoxy Crack Injection Kit

PRODUCT DESCRIPTION

The Five Star® Pressure Port Crack Repair System is a multiple component system engineered to provide structural repairs to horizontal, vertical and overhead cracks or voids in concrete up to 1/4 inch (6 mm). The complete system consists of Five Star® Crack Injection Resin, Five Star® Epoxy Capping Material and patented injection ports for easy installation without requiring additional special equipment.

ADVANTAGES

- Low viscosity ensures deep penetration into hairline cracks
- Moisture insensitive; can be used in damp applications
- Cures to 100% solids
- All inclusive, easy-to-use kit
- 100% solvent free system; No VOC content

USES

- Pressure injection of cracks in structural concrete, masonry, wood and other substrates up to 1/4 inch (6 mm) wide
- Vertical and horizontal cracks

Order Info

SKU 30793 Unit Yield: approx. 24 LF (7.32 M)

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 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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