

Promoting Use and Advancing Quality of Epoxy-Coated Reinforcing Steel.

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Welcome

When considering corrosion-resistant reinforcing it is important to consider many factors including:

Availability

- Some products require extensive lead times, resulting in project delays
- Certain products are available from a single manufacturer while Epoxy-coated reinforcing bars are available nationwide from over 35 plants

Sustainability

- Epoxy-coated reinforcing bars are manufactured using largely recycled steel that is supplied locally

Cost

- Epoxy-coated reinforcing bars provide cost-effective corrosion resistance

Experience

- Epoxy-coated reinforcing bars remains the most specified corrosion-resistant reinforcing and have been used in over 700,000 sq ft of bridge decks since 1973

Performance

- After 38 years of use, Epoxy-coated reinforcing bars continue to provide cost-effective corrosion performance.

Projects



45 Province Street

Boston, Massachusetts

Elegant residences have returned to Province Street, where prominent Bostonians first strolled the streets two centuries ago. Running along the foot of Beacon Hill and within a short walk of the Boston Common, the new 31-floor reinforced concrete mixed-use residential tower provides high-quality amenities while fitting into its historic neighborhood. Designers achieved this goal with a highly articulated facade that features a structural system made entirely of cast-in-place concrete.



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PROJECTS

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CERTIFIED PLANTS

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CALENDAR

FOR INSPIRATION

"We live in a wonderful world that is full of beauty, charm and adventure. There is no end to the adventures that we can have if only we seek them with our eyes open."

— Jawaharlal Nehru, Indian statesman

Aqua Building

Chicago IL

The Aqua Tower is an 82-story, mixed-use building designed by Jeanne Gang, founder of Studio Gang Architects. This is the largest project ever awarded to an American firm headed by a woman. Located in downtown Chicago, it was named to fit the nautical theme of the owner's other structures in the development complex. Enhancing that imagery are wave-like reinforced concrete balconies with unique, irregular shapes that make the skyscraper's façade appear to undulate. The balconies were created by combining concrete and epoxy-coated reinforcing bar in customized, reusable concrete forms.



Richmond Olympic Speed Skating Oval

Richmond, British Columbia

Creating the world's best long-track speed-skating rink required engineers to devise special systems to create a super-flat slab inside a structure resting on more than 700 feet of soft, compressible soil. To achieve this goal, designers used a reinforced concrete structural system and foundation to create an Olympic-grade athletic complex that is LEED Silver certified. Some 6850 tons of black and epoxy-coated reinforcing bar were used in the concrete components.



Visit Our Booth at The 7th International Bridge Engineering Conference

December 1 - 3, 2010 at Grand Hyatt, San Antonio, Texas

New Publications from the Epoxy Interest group

The following documents may be downloaded from www.epoxyinterestgroup.org or if you wish hard copies, please contact us at info@epoxyinterestgroup.org



Review of Papers - Corrosion Resistance of Epoxy-Coated Reinforcing Bars in Florida Bridges

This 4-page report summarizes work conducted by the University of South Florida and the Florida Department of Transportation on the performance of structures containing epoxy-coated bars in Florida. This paper predicts that epoxy-coated bars in appropriate concrete can provide a 100-year design life in a severe marine environment.



Epoxy-Coated Bars in Buildings

This 12-page document provides information on the use of epoxy-coated bars in buildings including sections on Sustainability and LEED Credits, Certification and Quality and specification. Examples of use are presented including the Aqua Building in Chicago, IL; 45 Province Street in Boston, MA; Richmond Olympic Speed Skating Oval in Richmond, BC; and the Kaufman Center for Performing Arts in Kansas City, MO.

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Questions from the Field

Question: *What's the best way to specify Epoxy-Coated Steel Reinforcing Bar for construction projects?*

Answer: Epoxy-coated bars are referenced by ACI 301, Specifications for Structural Concrete, which already typically used in construction specifications. This specification states that bars shall conform to ASTM A775 or ASTM A934 and shall be applied in plants that are certified in accordance with the Concrete Reinforcing Steel Institute (CRSI) Certification Program or an equivalent program acceptable to the Architect/Engineer. Additional sections in ACI 301 describe cutting, supports, tie wire, repair of damage, splices and repair of damage.

Editors Note:

We hope that you find information on this website useful and please contact us if additional information is required.