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Guidelines for Inspection and Acceptance of Epoxy-Coated Reinforcing Steel at the Jobsite

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Inspection of epoxy-coated reinforcing steel prior to concrete placement is critical to ensure that optimum corrosion protection is provided to the structure. In particular, repair of coating damage on the reinforcing bars prior to concrete placement and the use of plastic-headed vibrators should be addressed. This article presents information on the inspection of epoxy-coated reinforcing steel and may be used to supplement state or other agency requirements for epoxy-coated reinforcement.

Handling

Just like any material used on a jobsite, epoxy-coated reinforcing steel requires appropriate handling. These steps are aimed at reducing damage to the coating that could reduce its corrosion-protection performance. Handling and storage requirements for epoxy-coated reinforcing steel may be included in contract documents or individual agency specifications by reference to many different sources including ASTM A775, A934, A1055, A1078, and D3963,¹⁻⁵ as well as ACI 301.⁶ The following summarizes the main requirements found in these specifications:

- Epoxy-coated reinforcing steel should be lifted using a spreader bar or strongback with multiple pickup points to minimize sag. During sagging, steel reinforcing bars may rub against each other, causing damage to the coating.
- At no time should epoxy-coated reinforcing steel be dragged.
- Nylon or padded slings should be used, and at no time should bare chains or cables be permitted.
- Epoxy-coated reinforcing steel should be unloaded as close as possible to the point of concrete placement to minimize rehandling.
- Bundles of epoxy-coated reinforcing



Epoxy-coated reinforcing steel placed on epoxy-coated wire and plastic bar supports. All Photos: EIG.

steel should be stored on suitable material, such as timber cribbing. At no time should reinforcing steel be stored directly on the ground.

- If the epoxy-coated reinforcing steel is to be exposed outdoors for more than 30 days, it should be covered with a suitable opaque material that blocks ultraviolet light and minimizes condensation.
- Epoxy-coated reinforcing steel and uncoated steel should be stored separately.

Placement

To protect epoxy-coated reinforcing from oil contamination, steel forms should be oiled prior to placement of the reinforcing bars. Bars should not be dragged or placed directly on the forms, as this may result in oil contamination of the bar surface. Bars should be placed on supports coated with or made of nonconductive material, such as epoxy-

coated or plastic bar supports, and these should meet Class 1A requirements, as defined in the *CRSI Manual of Standard Practice*.⁷ Bars should be tied using coated tie wire. This wire is typically 16.5 gauge or heavier and black annealed. When used with epoxy-coated reinforcing bars, tie wire is typically coated with polyvinyl chloride (PVC). Coated bars may be cut using power shears, chop saws, or bandsaws; the cut ends should be patched using a two-part epoxy. Bars must not be flame cut. Bars may be bent at the jobsite, but only with the permission of the engineer responsible for the project, and this should be documented. If bending is to be conducted on site, it should be conducted at ambient temperatures.

Coating Damage

If the epoxy-coated reinforcing steel has more than 2% of its area damaged in any given 1 ft section of coated reinforcement,

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Reinforcing bar placing drawings are the instructions from the engineers to the contractors on how to build the structure to resist the anticipated loads. They Concrete Reinforcing Steel Institute (CRSI), "Manual of Standard Practice". 1.04.

REFERENCES ... of Standard Practice. 2. Manual of Placing Reinforcing Bars.. Also includes a chapter on epoxy-coated and other coated reinforcement. Download Placing Reinforcing Bars - 9th Edition ...pdf · Read Online Placing Reinforcing PDF Drive - Search and download PDF files for free. Crsi ... CRSI Manual of Standard Practice 2 CRSI, Placing Reinforcing Bars CONCRETE Placing Reinforcing Bars, 10th Edition. Placing ... Expanded field placing tolerances with addition of vertical bar placement. ... All Resources Purchase PDF Pub.. Placing Reinforcing Bars - 9th Edition [CRSI] on Amazon.com. *FREE* shipping on qualifying offers. Placing Reinforcing Bars - 9th Edition.. This Construction Technical. Note (CTN) provides practical recommendations for rust and mill scale presence on reinforcing bars at the time of concrete placement perception exists, but fortunately the Concrete Reinforcing Steel Institute (CRSI) handles this subject very well in their publication: Placing Reinforcing Bars.. PLACING REINFORCING BARS CRSI THE POOL PROS. PLACING REINFORCING BARS 9TH. EDITION LAWRLWYTHO PDF. PLACING REINFORCING BARS Non-Member: \$199.95. Design Guide on the ACI 318 Building Code Requirements for Structural Concrete · Placing Reinforcing Bars, 10th Edition. Merchandise.. ACI/CRSI COMMITTEE 315 - DETAILS OF CONCRETE REINFORCEMENT ... reinforcing bar fabrication, reinforcing bar placement and formwork. ... 3. http://www.chemstop.com/SubPacks/General_Waterstop_Brochure.pdf.. here as a guide to reinforcing materials available and industry practices of estimating, detailing, fabricating, placing and con- tracting for reinforcing steel and ...

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<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/Docs/QPL.pdf>.. The improper placement of reinforcing steel ... caused by improper reinforcing steel placement. ... CRSI's publication, Placing Reinforcing Bars, the authori-.. Concrete Reinforcing Steel Institute (CRSI), "Manual of Standard Practice". ... The Reinforcing-Placing subcontractor shall attend the Pre-Concrete Conference.. CRSI Manual of Standard Practice. - Section 8.3. "At the time of placement, all reinforcing bars shall be free of mud, oil, or other. d l i. i l " deleterious materials." ...

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