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Continuing Education Course #569
Fiberglass Rebar Fundamentals

1. FRP stands for?
- a. Fiber Reinforced Polyester
- b. Fire Resistant Polymer
- c. Fire Resistant Plywood
- d. Fiber Reinforced Polymer
- e. Frangible Rebar Pile

2. Which of the following is not a common FRP rebar coating type?
- a. Ribbed
- b. Sand Coated
- c. Galvanized
- d. Helical Wrap
- e. Helically Grooved

3. Commercial FRP rebar applications include all of the following except...
- a. MRI Rooms
- b. Non-structural plain concrete patios
- c. Seawalls
- d. Bridges
- e. Foundations

4. Steel expands when it corrodes.
- a. False
- b. True

5. All of the following except which are traditional ways to combat corrosion with steel rebar?
- a. Admixtures
- b. Epoxy-coated rebar
- c. Galvanized rebar
- d. Increased cover
- e. Oil-coated rebar

6. Fiberglass strands designated as "CR" indicates what property?
- a. Chemically Restructured
- b. Concrete Resilient
- c. Carbon Reinforced
- d. Continuous Roving
- e. Corrosion Resistant

7. Which of the following resins is not common for use in a FRP rebar matrix?

- a. Vinyl Ester
- b. Polyester
- c. Epoxy
- d. Polyurethane

8. Which FRP rebar material property is most equivalent to steel rebar?
- a. Weight per foot
- b. Tensile strength
- c. Modulus of Elasticity
- d. Diameter
- e. Transverse Shear

9. True or False: FRP rebar does not yield before failure.
- a. True
- b. False

10. Which standard test spec identifies glass transition temperature?
- a. ASTM E1356
- b. ASTM D7205
- c. ASTM D570
- d. ASTM D5117
- e. ACI 440.3R-B.3

11. Benefits of FRP rebar include all except which...:
- a. Non-corrosive
- b. Lightweight
- c. Easy to bend in the field
- d. High tensile strength
- e. Good chemical resistance

12. The best tool to cut FRP rebar is a...
- a. Acetylene torch
- b. Plasma cutter
- c. Tin snips
- d. Diamond blade saw
- e. CNC mill

13. ACI 440.3R-12/B.5 is a test method that specifies the strength of...
- a. Carbon fiber reinforced concrete
- b. Chopped fiberglass additives
- c. FRP bent bars and stirrups
- d. Concrete compression strength
- e. Fiberglass-epoxy bond strength

14. What property of a concrete structure can FRP rebar significantly increase?
- a. Density
- b. Soil bearing capacity
- c. Service life
- d. Weldability
- e. Wildlife usability

15. Which guide is used for the design and construction of externally bonded FRP systems for strengthening concrete structures?

- a. ACI 440.1R-15
- b. ASTM D7957
- c. ACI 440.2R-08
- d. CSA 807-19
- e. AASHTO BDS