



Instruction for Handling and Safety

1. MSTBAR™ could be crushed or damaged due to improper handling during loading, transportation or offloading.
2. Do not place MSTBAR™ on Sharp edges and directly on the ground, always use beam or timber pallet under the bar package to keep them away from dirt and mud.
3. MSTBAR™ can be damaged by rubbing abrasive material to it; do not drag MSTBAR™ on the ground or sharp edges.
4. MSTBAR™ does not contain ultraviolet (UV) resistance additives; therefore, exposure to direct sunlight shall not exceed 60 days. If exposure is expected to go beyond 60 days, MSTBAR™ must be covered to prevent direct exposure. Any project-specific storage or placement requirements provided by the Owner, Engineer of Record (EOR), or specified in the contract documents must also be followed. In case of discrepancies, the more stringent requirement shall govern.

5. To cut MSTBAR™ do not use shear force and inappropriate tools. MSTBAR™ can be cut using a steel saw, jigsaw, reciprocating saw, band saw, or a grinder with a diamond blade.
6. MSTBAR™ is not weldable. It can be spliced with an overlap of at least 40 times the diameter of the bar, or as required by the EOR.
7. MSTBAR™ is elastic and will not remain bent. If bent beyond its limits, it may break, or the stored potential energy could cause it to snap back suddenly, posing a risk of injury.
8. Do not bend or straighten bars in the field
9. When placing the MSTBAR™ make sure it is free of dust and oil, otherwise it will affect the bond between the bar and concrete.
10. Secure MSTBAR™ in the formwork to avoid movement of the bars before placement of concrete.
11. MSTBAR™ should be supported with noncorrosive chairs.
12. Tie MSTBAR™ with uncoated, coated, stainless steel or nylon tie wire, you may use heavy-duty zip tie. For best corrosion protection do not use uncoated tie. For applications requiring complete electromagnetic neutrality, MSTBAR™ shall be secured using nylon or plastic (zip) ties. Alternatively, thermoplastic injection-molded clips may be used.
13. At all-time wear gloves to prevent any splinters.
14. Do not drill and bond MSTBAR™.
15. Any steel reinforcement may be used in conjunction with MSTBAR™. For optimal corrosion protection, embedded steel components used alongside MSTBAR™ should be zinc-coated (galvanized), coated with non-metallic materials, made of stainless steel, or stainless steel-clad.

16. All placement of MSTBAR™ shall be performed in accordance with ACI 440.5-22 – *Specification for Construction with Fiber-Reinforced Polymer Reinforcing Bars*, CRSI or RSIC guidelines. This includes guidance on bar positioning, tolerances, supports, and securing methods to ensure structural integrity and durability. In addition to ACI 440.5-22, any project-specific placement requirements provided by the Owner, Engineer of Record (EOR), or specified in the contract documents must also be followed. In the event of discrepancies, the more stringent requirement shall govern.

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