

ROAD and BRIDGE 101

FAST and HARD SUPPLY CO. LLC

Repair Procedure for Bridge Decks Where Shallow Rebar is Exposed

“Rebar Recapture”

1. Using a hammer drill and moil point, completely remove all the old vertical cement so that the rebar is totally exposed.
2. Mix the resin with the appropriate amount of catalyst and paint the horizontal concrete surface and **only** the **bottom** half of the re-bar radius. **Take care not to paint the top half of the re-bar.**
3. Blend sand with the resin mixture until the material has the consistency of molasses (flowing).
4. Trowel the mixture onto the surface between the re-bar to a depth of half the re-bar radius. Make sure that the material is forced under any re-bar that has the bottom radius exposed.
5. Place greased 2 x 4s at an angle on the top of the re-bar 12 to 18 inches apart and add as much weight as needed to firmly push and hold the bar in place.
6. Allow the first lift to completely cure. Be patient. The lift should be hammer hard and sound solid when pinged.
7. Remove the weight and 2 x 4s. Mix another batch of resin and catalyst and paint the entire surface including the remaining half of the re-bar radius.
8. Blend sand into the resin mixture to achieve a flowing consistency (as in the first lift).
9. Pour the mixture onto the surface and screed with a greased 2 x 4. Use a 2 x 4 that is straight and at least two feet longer than the widest part of the repair area. While screeding, use a slow sawing motion. This should produce a repair that is exactly deck level.
10. Broadcast ample sand on the top of the completed repair and broom when the material is firm but still slightly sticky.



