Cost Savings Summary

Date: September 2011
Repair Problem: Truck Scale Concrete Pad Repair
Customer Type: Paper & Wood

Original Repair Procedure and Result:

The inbound truck scale was in such bad shape that the scale was flexing and giving inaccurate weights on the trucks. This inaccuracy could have led to a shut-down of the facility. Other repair methods had quickly failed. To replace the 3 panels on the scale it would have been 30K each plus a 30 to 45 day wait to fabricate and pour the cement for the panel. This repair cost does not include labor or downtime.

Estimated Cost of Original Repair Procedure: $90,000

Alternative Repair Procedure with Partsmaster Products and Results:

Clean, dry and prep the area to be repaired. Coat the exposed, rusting reinforcement steel with Salvage™ II to prevent further deterioration. Mix and apply Mega-Primer™ Fast Cure and allow to set until tacky. Mix and apply Mega-Crete™ to the holes and allow to cure over a weekend. Repair cost includes 36 hours of labor (3 men x 6 hours x 2 days). Repair has been in place over 3 years with no failure.

Estimated Cost Using Partsmaster Products: $9,620

Pad repairs made using Mega-Crete when damaged areas are small will only cost a fraction of what these large-scale pad repairs cost.

Estimated Overall Savings: $80,380

APPLICATION STORY

A wood chipping mill in Maine receives inbound truckloads of tree-length logs and chips them for a local paper mill. The loaded trucks are weighed to determine value. Over time, the combination of freeze/thaw cycle and heavy truck traffic broke down the concrete panels covering the truck scale sub-platform. The damaged pad caused the truck scale to flex, creating inaccurate weight readings that threatened to shut down the chipping plant.

• In-house repairs using other concrete repair products were unsuccessful. Hiring a contractor to custom fabricate replacements would have cost $30K per pad and would have required 30-45 days.

• The damaged areas on the concrete pads were quickly and easily repaired with Salvage II rust encapsulator, Mega-Primer Fast Cure concrete primer and Mega-Crete repair compound. Exposed steel reinforcement was sealed with Salvage II rust encapsulator to prevent further corrosion before the concrete was primed with Mega-Primer Fast Cure concrete primer. Finally, Mega-Crete concrete repair compound was used to fill and level the hole and was left to cure over a weekend. In just 5 days, with only 35 hours of labor, the scales were back up and running and the repair has held without failure for over 3 years.

APPLICATION STEPS

See next page for detailed pictures and application instructions.

Cut a 1/2" deep perimeter around the sound concrete adjacent to the damaged area. Remove loose/damaged concrete and clean and dry the area to be repaired. Prime exposed, rusted rebar & I-beams with Salvage-II rust encapsulator and allow it a couple hours to set. Mix and apply Mega-Primer Fast Cure primer liberally onto the concrete and allow to set untill tacky. Mix Mega-Crete repair compound into a mortar-like consistency and pour into the repair area. Once cured, take a few minutes to lightly blend the bond line using 60 grit Tuff-Grind or 36 grit Z-Disk CO, if desired.

FEATURES AND BENEFITS

• Repair system repairs concrete and stops further deterioration of steel reinforcements
• Withstands tough environments – both freeze/thaw and many de-icing chemicals

Salvage II rust encapsulator
• Encapsulates rust and seals out moisture to prevent further damage
• Requires only minimal surface preparation – clean and chip away loose rust

Mega-Primer Fast Cure concrete primer
• Seals concrete from water vapor
• Readsly penetrates concrete to provide an excellent mechanical bond

Mega-Crete repair compound
• Four times stronger and six times more abrasion resistant than concrete
• Tenaciously bonds to concrete and steel
1. Use a right angle grinder and a Laser™ crack chaser or Dia-Cut™ cutting wheel to cut a 1/2” deep perimeter around the sound concrete adjacent to the damaged area. With the added demands of this application, the minimum 1/2” depth is imperative.

2. Remove the damaged concrete inside the perimeter. Use the cutting wheel to make a series parallel cuts, spaced 1” apart. Use the hammer and chisel to chip away the damaged concrete.

3. Use a Dia-Cut™ grinding wheel to remove all skim coated surface concrete inside the repair area and out to the 1/2” deep perimeter cut.

4. Mega-Crete bonds to and protects clean steel. If rusted and wet, use a weed burner to fully dry exposed rebar and I-beams.

5. Mix and apply Salvage-II rust encapsulator to exposed steel and allow it a couple hours to set.

6. Mix and apply Mega-Primer Fast Cure primer liberally onto the concrete (especially around the repair edges) and allow to set until tacky (about an hour at 72°F).

7. Mix Mega-Crete repair compound into a mortar-like consistency and pour into the repair area. Repairs deeper than 2” can be made by pouring Mega-Crete over a level lay of dry stone aggregate and encapsulating it.

8. Once cured, take a few minutes to lightly blend the bond line using 60 grit Tuff-Grit or 36 grit Z-Disk CO, if desired.
Applications

• Step repair
• Driveway/ramp repair
• Shop floor repair
• Loading Dock Repair

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APPLICATION STORY

Trucking & Automotive
Repairing Drive-Over Truck Scales
MEGA-CRETE™ REPAIR COMPOUND & SALVAGE™ II RUST ENCAPSULATOR

APPLICATION STEPS

See next page for detailed pictures and application instructions.

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