



Patching Bridge Decks With Silspec® Flexpatch

Silspec® Flexpatch is a 100% solids, multi-purpose, high-strength, non-shrink, waterproof, semi-flexible polymer patching mortar for longer lasting patches with excellent workability. The system combines a high quality polymer resin and curing agent with an engineered blend of graded aggregates.

This sheet shows how DOT or contract workers can install Flexpatch on a bridge deck using common construction tools and equipment.

Step 1



Use a chain-drag or hammer to determine the outer limits of the patch area.

Step 2



Saw the perimeter of the patch to give a shoulder to finish the Flexpatch to.

Step 3



Use an appropriate size hammer to remove all loose and deteriorated concrete. The patch should be deep enough to encapsulate the top layer of reinforcing steel.

Step 4



After chipping out the patch, remove debris and check further for unsound concrete.

Step 5



Sandblast patch. Blast all steel to SP10 (Near White) Blow patch with oil, moisture-free compressed air to remove debris from the blasting operation. Be sure sandblasting equipment and blow tubes are equipped with an oil/moisture trap to remove contaminants.

Step 6



Mix SSI Flexpatch per directions and pour into prepared hole. Flexpatch is available in convent pre-measured 1.0 Cubic Foot units. Full kits can be mixed in a conventional mortar mixer, or the user can easily divide them down for mixing in 5 gallon buckets.

Step 7



Finish the Flexpatch with a steel trowel and use a screed board to check that it is level with the surrounding driving surface.

Step 8



Allow the newly repaired patch to cure and open to traffic.

SSI Flexpatch provides a tough, longer lasting patch called for under today's grueling highway conditions. It can be easily applied using equipment that is already utilized by DOT or Contractor personnel.

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