**Fast Set Deck Patching, Item SPV.0180.XX.**

# A Description

This special provision describes furnishing, placing and curing a rapid setting non-shrink patch material on the sawed deck preparation areas of the concrete bridge deck. Perform the work conforming to standard spec 509.

# B Materials

Furnish a rapid setting non-shrink material designed for repairing concrete decks. The material shall be capable of obtaining a minimum compressive strength of 3000 psi within 3 hours. The patch material must be compatible with the existing concrete deck, reinforcing steel, and the Polymer Overlay product; and have a proven record of at least five (5) successful applications in climates similar to Wisconsin. The use of chloride accelerators or other corrosion inducing products is prohibited.

A minimum of ten (10) working days prior to construction, submit the manufacturer’s product data sheets, material sources, mix designs, and supporting performance documentation to the engineer for approval.

# C Construction

Clean and prepare the area to be patched in accordance with the manufacturer’s recommendations and as follows. After sawed deck preparation work is complete, blast clean the area and any exposed reinforcing steel. Thoroughly clean the surface upon which the new patch material is to be placed by brooming and using air pressure to removal all loose particles and dust. Apply a bonding agent, as necessary and as recommend by the patch material manufacturer, to surfaces to be covered by patch material.

Place patch material to produce plane surfaces that conform to the grade and elevation of the adjoining surfaces. Where a polymer overlay is not to be placed over the patch, finish the surface by tining or applying exposed angular aggregate as approved by the engineer. Where a polymer overlay will be placed over the patch, shotblast the patching in the same fashion as the remainder of the bridge deck.

Submit certified test results from an independent lab showing that the patch material obtained 3000 psi within 3 hours of placement.

# D Measurement

The department will measure Fast Set Deck Patching by the square yard acceptably completed.

# E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

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| --- | --- | --- |
| ITEM NUMBER | DESCRIPTION | UNIT |
| SPV.0180.xx | Fast Set Deck Patching | SY |

Payment is full compensation for furnishing, hauling, preparing, placing, finishing, curing, and protecting all materials.