



Productivity First-Round Winner
Innovations Challenge

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Prepared by Transportation Planning
Missouri Department of Transportation

Concrete Cloth



Description

Concrete Cloth is a cloth matrix impregnated with cement. The cloth can be cut with a box knife then molded to fit any shape or space needed. Adding water causes the cement to harden. A 640' x 3.5' roll was purchased and used in several applications, primarily lining culvert pipe. The first application is shown in the pictures above. Nearly a half dozen locations were treated with this one roll, saving immense time, trouble, effort, and money while not exposing employees to less than optimal situations.

Benefit

The first application was in a pipe beneath MO 32 east of Licking. The tube alone was estimated to cost around \$10,000 before any additional expenses for mobilization, excavation or traffic control. Using around \$3,500 worth of Concrete Cloth, this pipe was repaired without any traffic control or excavation.

Materials and Labor

8 hours of staff time for four employees and \$3,500 in materials.

For More Information Contact:

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Additional photos or videos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.