

Productivity First-Round Winner
Innovations Challenge

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Prepared by Transportation Planning
Missouri Department of Transportation

Pavon Pressure Sprayer



Description

Pavon is a material similar to tack oil that is used to patch potholes. Traditionally, Pavon is dumped from a bucket into potholes before applying the patching material. Pavon is a very sticky, thick material that comes in five gallon buckets. By utilizing the Pavon Pressure Sprayer, the material can be applied using a different method. With the sprayer, Pavon is cut with 50 percent water. Cutting tack oils is a common procedure and has not been found to impact the durability in the past. This allows the Pavon to be sprayed into the potholes rather than applied as a thick, sticky liquid. The change in application results in a quicker, easier process and less wasted material.

Benefit

This sprayer saves money because the Pavon is cut by 50 percent with water, and by spraying it on the road instead of dumping it from a bucket, less product is wasted. It saves time and simplifies work because it can spray holes and cover the entire hole with one quick spray. It is safer because crew members don't spend as much time on the road patching the hole. In addition, back injuries can be reduced since crew members do not have to pick up a heavy bucket and bend over to pour the material.

Materials and Labor

Materials: \$500

Labor: 16 hours

For More Information Contact:

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