



## PennDOT Maintenance Business Model

Crack sealing and hot pour mastic operations prevent water intrusion from seeping through cracks or joints in an asphalt road, which can lead to potholes and pavement break up. These operations are typically performed during spring and fall but can be done during winter months when temps are above freezing, when cracks are more pronounced.

Both operations require about eight crew members, a dump truck, an air compressor, a heating kettle for the sealant and a device to apply the sealant into the cracks. These maintenance activities involve removing debris from the crack or joint to be sealed and then applying a liquid asphalt material into the cracks. The material is then wiped flush with pavement surface and allowed to dry before allowing traffic on the roadway.

Crack sealing is performed on small cracks while hot pour mastic is a similar application, however it contains aggregate and is used for larger repairs (cracks greater than 1" in width). Both are proactive preventive maintenance strategies to prevent water from entering the roadways leading to potholes and other failures.

CRACK SEALING & HOT POUR MASTIC

# PennDOT Maintenance Business Model

Although Pennsylvanians see PennDOT crews on the roads year-round, they may not always realize the scope or importance of the work we do.

Common maintenance activities may not receive as much public attention as building new bridges or highways, but they are integral to the maintenance of the state's 40,000 roadway miles and 25,400 bridges. Core maintenance operations are planned on reoccurring cycles to effectively manage and preserve our assets.

Activities such as crack sealing, patching, surface treatment, shoulder cutting and side dozing; in addition to keeping our drainage systems functional through pipe replacement, flushing and ditch cleaning are key components of the maintenance business model. These ensure that we are effectively managing and preserving our assets, while also dedicating resources to system improvements.

Combined with other activities such as successful winter maintenance, line painting, vegetation management, signing, bridge maintenance and litter cleanup, PennDOT is making improvements, enhancing equity in our organization and transportation systems for all people, and –as always—aiming at a safer, more connected Pennsylvania.

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