

Activity 110 Crack Sealing

Description

Activity 110 involves applying crack sealing material (flexible sealer) to cracks or joints in bituminous or Portland Cement concrete surfaces to prevent penetration of water into base material and to prevent intrusion of foreign material into the crack or joint.

General Information

Refer to discussion in the General Instructions section preceding Activity 100 in this section of the *Maintenance Guide* for additional information including environmental and traffic control recommendations and other important considerations

Only use crack sealing material that is listed in ODOT's *Qualified Products List*. Generally, use sealing material of a color similar to the existing roadway material. If needed, request advice and guidance from the manufacturer of the crack sealing material.

Ensure that the sealed cracks are properly protected so that neither the crack sealing material nor vehicles driving over it are damaged. If surfacing will soon be placed over the sealed cracks, ensure that the sealing work will not affect the quality of the finished surfacing or smoothness of the ride. It is a good practice to seal cracks a year in advance of a chip seal to minimize risks to the quality of the chip seal.

Equipment

Equipment may include:

- Device to loosen and remove foreign material from crack.
- Air compressor to remove loose material and dry the crack.
- Device to heat and apply the crack sealing material.
- Vehicles to tow crack sealer and compressor.

Materials

Materials may include:

- Crack sealing material.
- Sand to use as blotter.
- Backer material for larger cracks.

Work Method

1. Identify area to be repaired.
2. Implement appropriate traffic control.
3. Implement appropriate methods of erosion, sediment control, or pollutants and contaminants control.
4. Loosen and remove foreign material from each crack, typically with a probe or rotary device.
5. Use compressed air to remove remaining material and dry the crack surfaces. Care should be taken to shield the traveling public from flying debris. Sweep or blow debris off of roadway.
6. Properly heat and apply the crack sealing material.
7. Strike off the crack sealing material to no higher than adjacent surfaces. Apply sand as a blotter if needed.
8. To prevent environmental damage, clean tools and equipment using Best Management Practices.
9. Remove traffic control once material has set up enough to allow traffic to drive on it without picking up the material on their tires.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is tons of crack sealing material used. Expenditure account type is Highway EA; use a sub job appropriate for the crew performing the work.

Use a sub job within the 800 series if the work involves bicycle path facilities. These sub jobs are assigned by the Maintenance Management System (MMS) Unit based on the type of work performed.

If preparing a Betterment Order for this Activity, note as many details as possible on the form to help track costs, location, and other relevant details.

- Charge all work to Activity 110.