

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 Instructions

Refer to discussion in the General Instructions section preceding Activity 100 in this section of this Guide.

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.

Assure 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, assure that the sealing work will not affect the quality of the finished surfacing or smoothness of the ride.

Controlling Erosion, Sedimentation, and Pollutants or Contaminants

Plan and implement methods to control erosion, sedimentation, and pollutants or contaminants, including those discussed in the Control of Erosion, Sedimentation, and Pollutants or Contaminants section of this Guide and the *ODOT Routine Road Maintenance Water Quality and Habitat Guide Best Management Practices*.

As appropriate, implement and maintain devices and processes including those described in the *Field Manual for Erosion and Sediment Control*.

Temporary Protection and Direction of Traffic

Plan, implement, and maintain traffic control as addressed in the *Traffic Control on State Highways for Short Term Work Zones* handbook.

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.

Materials

Materials may include:

- Crack sealing material.
- Sand to use as blotter.

Work Method

1. Implement appropriate traffic control.
2. Implement appropriate method to control and dispose of removed material and contain the crack sealing material.
3. Loosen and remove foreign material from each crack, possibly with a probe or rotary device.
4. Use compressed air to remove remaining material and dry the crack surfaces. Care should be taken to shield the traveling public from flying debris.
5. Properly heat and apply the crack sealing material.
6. Strike off the crack sealing material to no higher than adjacent surfaces. Apply sand as a blotter if needed.
7. Appropriately gather and dispose of removed and waste material in an appropriate location.
8. Remove traffic control.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is tons (kilograms) of crack sealing material used. Expenditure account type is Highway EA. Designate a subjob of 800 if the work involves bicycle path facilities.

- Charge all work to TEAMS Activity 110.