

SECTION 456 – SEALING EXISTING JOINTS IN CONCRETE PAVEMENT

456.01 DESCRIPTION

This Section describes the requirements for cleaning and sealing transverse and longitudinal joints in existing concrete pavement.

456.02 MATERIALS

456.02.01 Materials

Provide materials as specified:

| | |
|--------------|------------------------|
| Joint Sealer | 914.02 |
| Backer Rod | 914.02 |

456.02.02 Equipment

Provide equipment as specified:

| | |
|---------------------------|-------------------------|
| Sealer Application System | 1003.08 |
| Hot-Air Lance | 1008.06 |

456.03 CONSTRUCTION

456.03.01 Sealing Existing Joints in Concrete Pavement

Clean joints to be sealed to a depth of at least 2 inches by use of a rectangular plow, a diamond blade saw, or other suitable equipment. Remove joint material, incompressibles, rubble, and other extraneous materials present in the joint or adhering to the face of the adjacent concrete slabs. Clean both faces of the joint by sandblasting to the depth of the proposed sealer, leaving the faces clean and free of existing joint sealer and other contaminants. Blow the joint with a hot-air lance to provide a dry surface.

Insert the backer rod only in transverse expansion joints at a depth equal to the joint width plus 1/4 inch for the recess. Install the backer rod with a doublewheeled steel roller without stretching or puncturing the backer rod. Ensure that the backer rod is firmly seated to support the joint sealer in the joint.

Melt the joint sealer according to the manufacturer's recommendations. Ensure that the application temperature of the joint sealer is approximately 295 °F, except do not exceed the manufacturer's safe heating temperature. Seal joints when the ambient temperature is above 40 °F.

Discard the first gallon of material to flow from the applicator wand. Pour joint sealer in the joints, ensuring that joint sealer is not spilled on the surface of the concrete. If spillage occurs, immediately remove spilled joint sealer from the surface of the concrete. Fill joints so that the joint sealer is 1/8 to 1/4 inch below the adjacent surface.

Remove the joint sealer for the full slab width and full seal depth from joints that are filled to within 1/8 inch of the elevation of the adjacent concrete. Completely clean and reseal the joints the same day as the joint overfilling occurred.

Do not allow traffic over the poured joints until the joint sealer has hardened to resist pickup.

456.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

| Item | Pay Unit |
|--|-----------------|
| SEALING EXISTING JOINTS IN CONCRETE PAVEMENT | LINEAR FOOT |

Additional Reference Material

[Item Number List](#)

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