

B369 - SEALING OR RESEALING OF JOINTS
AND CRACKS IN CONCRETE PAVEMENT AND CONCRETE BASE
- OPSS 369

369.1 GENERAL

The work of sawing, cleaning and sealing or resealing of joints and working cracks in existing concrete pavement and concrete base to prevent the infiltration of surface water and incompressible materials is covered under the tender item: 'Resealing of Joints and Sealing or Resealing of Cracks in Concrete Pavement and Concrete Base'. Resealing of joints includes removal of existing sealant and no sealants shall be installed until all grinding or milling has been completed. Joints in concrete base do not need to be sealed, but any cracks in concrete base should be sealed.

The need for crack sealing is usually initiated by the Regional Geotechnical Design Section and recommendations are typically contained within the Regional Geotechnical Design Report.

When concrete pavement is placed according to OPSS 350, all joints and sealing are paid for as part of the work of placing new concrete pavement.

369.2 REFERENCES - None

369.3 TENDER ITEM

Resealing of Joints and Sealing or Resealing of Cracks in Concrete Pavement and Concrete Base.

369.4 SPECIFICATIONS

The requirements for the above tender item are contained in OPSS 369.

369.5 SPECIAL PROVISIONS

There are no special provisions for this tender item.

369.6 STANDARD DRAWINGS

Applicable standard drawings are illustrated in the Ontario Provincial Standard

Drawings Manual in the 500 series.

369.7 DESIGN

The specification is appropriate for use on cracks and joints up to 25 mm in width. For widths greater than 25 mm, the designer should consider alternative remedial treatment such as full depth repair, using other tender items.

This tender item may be used for two cases:

1/ Composite pavement (asphalt over concrete). The quantity of crack lengths (m) in the underlying concrete are estimated in the Pavement Design Report. Actual cracks to repair are identified during construction after asphalt is removed.

2/ Concrete pavement. An accurate quantity (m) of crack lengths may be estimated during a field visit by geotechnical staff and reported in the Pavement Design Report.

The designer should estimate tender quantities for resealing of cracks and joints and sealing of cracks required under this item. The tender quantity should not include the sealing of joints in new concrete pavement. (reference: CDED B350)

A pavement condition survey is recommended to estimate the extent of the joint and crack sealing or resealing required.

The ministry now only specifies hot pour liquid sealant.

369.8 COMPUTATION

This is a PQP item.

369.8.1 Source of Information

The main source of information for this tender item is field note books, standard cross sections, Pavement Design Reports and the Regional Geotechnical Section.

369.8.2 Method of Calculation

The unit of measurement for “Resealing of Joints and Sealing or Resealing of Cracks in Concrete Pavement and Concrete Base” is made in linear metres.

369.9 DOCUMENTATION

The location of each repair area is indicated on the Quantities – Miscellaneous sheet. Note the start and end chainage of each area of repair in one line. A single column is titled with the tender item name. The quantity of crack length of repair for each area is entered in this column in the corresponding line.

The length of repair area may be 350m or other suitable interval.

369.9.1 Documentation Accuracy

Summarized repair lengths are recorded to the nearest whole number of metres.