

ITEM 06502.3408 M - DRILLING AND GROUTING EPOXY COATED BAR REINFORCEMENT INTO EXISTING PORTLAND CEMENT CONCRETE

DESCRIPTION

Under this item the Contractor shall drill holes and install epoxy coated bar reinforcement into existing portland cement concrete using chemically curing anchoring material in accordance with the contract plans, specifications and as ordered by the Engineer.

MATERIALS

- (1) The chemically curing anchoring materials shall meet the requirements of NYSDOT Materials Specification 701-07. The evidence of acceptability for this material shall be a container label with a brand name which appears on the current approved list.
- (2) The bar reinforcement shall conform to the criteria set forth in NYSDOT Standard Specifications, Section 709-04, Epoxy Coated Bar Reinforcement, Grade 60.

CONSTRUCTION DETAILS

Holes shall be drilled in the existing P.C.C. for installing bar reinforcement. The location and depth of the drilled holes and the length and diameter of the bar reinforcement, shall be as shown on the plans. The diameter of the holes shall be as recommended by the manufacturer of the grout material. The components of the binder material shall be proportioned and mixed in accordance with the manufacturer's instructions.

The hole into which the bar reinforcement is to be placed shall be blown clean with a compressed air stream measuring 690 kPa at the source. A dial gauge shall be attached to the compressed air line to allow the Engineer to ascertain the pressure. The air compressor shall be equipped with traps capable of removing moisture and oil from the compressed air. A tubular cylinder brush whose bristle length measures 125 mm and whose diameter measures 50 mm shall be run through the full depth of the hole several times after the air cleaning to insure that all remnant concrete dust is removed.

Care shall be taken to prevent the grout material from running out of the holes. These precautions shall be done in a manner acceptable by the Engineer.

METHOD OF MEASUREMENT

This work will be measured by the number of reinforcing bars installed into existing Portland Cement Concrete.

BASIS OF PAYMENT

The unit price bid for each bar reinforcement installed into the existing P.C.C. shall include the cost of furnishing all labor, materials and equipment necessary to complete the work including the drilling and cleaning of holes.