

ITEM 685.17XX--25 - HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES, 6 INCH WIDTH

1. DESCRIPTION:

- 1.01 Under this work the Contractor shall furnish and apply highly reflectORIZED epoxy pavement markings in accordance with these Specifications, the Contract Documents, the MUTCD with the NYS Supplement or as ordered by the Engineer. Unless otherwise indicated, payment will be for lengths of six (6) inch wide stripes.
- 1.02 All provisions of Section 685 – Epoxy ReflectORIZED Pavement Markings shall apply **except** as modified below:

2. MATERIALS:

- 2.01 All provisions of Section 727-03 – Epoxy Paint, in the NYSDOT Standard Specifications of May 1, 2008 shall apply for the epoxy paint used for these stripes.
- 2.02 The optics applied to the epoxy paint shall be a combination of standard glass beads (NYS Type 1) Visibead Plus or Approved Equal (NYS Type 2) and elements containing microcrystalline ceramic beads. The microcrystalline ceramic beads shall have a minimum index of refraction of 2.40 when tested using the liquid oil immersion method. The glass beads shall be clear. The microcrystalline ceramic beads shall be either clear or yellow tinted as required. For white stripes, 3M Series A W wet elements wet E white ceramic beads or approved equal shall be used. For yellow stripes, 3M Series A W wet elements wet E Yellow ceramic beads approved equal shall be used.

3. CONSTRUCTION DETAILS:

- 3.01 The epoxy marking material shall be hot applied by spray methods onto clean bituminous and Portland Cement Concrete pavement surfaces at the thickness and width shown in the Contract Documents and/or as indicated by the Pay Item Number. The beads described above shall be applied to the hot epoxy paint using a triple drop system. The beads shall be dropped in the following order and rates. The first drop shall be the microcrystalline ceramic beads at a rate of seven (7) lbs. per gallon. The second drop shall be the NYS Type 2 beads at a rate of seven (7) lbs. per gallon and the third drop shall be the NYS Type 1 beads at a rate of ten (10) lbs. per gallon. The cured epoxy marking shall be an adherent, highly reflectORIZED stripe.
- 3.02 The epoxy marking material shall be applied to concrete or asphalt in a wet thickness of 20 or 25 mil, as indicated by the Pay Item Number.

4. METHOD OF MEASUREMENT:

- 4.01 Pavement striping will be measured in linear feet along the centerline of the pavement stripe, and will be based on a six (6) inch wide stripe. Measurement for striping with a width greater or lesser than the basic six (6) inches, as shown on the plans or as directed by the Engineer, will be made by calculating payment length using the following method:

$$\frac{\text{Plan Width for Striping (inches)} \times \text{Linear Feet Measured}}{6 \text{ inches}}$$

5. BASIS OF PAYMENT:

- 5.01 The unit price bid shall include the cost of all labor, materials and equipment to satisfactorily complete the work.

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5. BASIS OF PAYMENT: (cont'd)

5.02 Payment will be made under:

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>PAYUNIT</u>
685.1707--25	White Highly ReflectORIZED Triple Drop Epoxy Pavement Stripes – 6” x 20 Mils	LF
685.1708--25	Yellow Highly ReflectORIZED Triple Drop Epoxy Pavement Stripes – 6” x 20 Mils	LF
685.1709--25	White Highly ReflectORIZED Triple Drop Epoxy Pavement Stripes – 6” x 25 Mils	LF
685.1710--25	Yellow Highly ReflectORIZED Triple Drop Epoxy Pavement Stripes – 6” x 25 Mils	LF