

ITEM 01608.9501 M -COLORED SURFACE TREATMENT Type 1, Traffic Grade
ITEM 01608.9502 M -COLORED SURFACE TREATMENT Type 2, Pedestrian Grade

DESCRIPTION

Construct a single course of colored surface treatment in accordance with these specifications and in substantial conformance with the details shown on the contract documents or as established by the Engineer.

MATERIALS

Use Tyregrip[®], a two part cold applied epoxy resin surface treatment containing pigmented epoxy/amine binder covered with natural or pigmented aggregates produced by Prismo Limited, or an approved equal. The binder and aggregate colors shall be as indicated on the contract documents, using the aggregates available from Prismo Limited[®] or an approved equal.

Aggregates must meet the requirements of Section 703-Aggregates. Additionally, Traffic Grade aggregates must meet Section 401-2.02 B. Coarse Aggregate Type F2 Conditions and Pedestrian Grade aggregates must meet Section 401-2.02 D. Coarse Aggregate Type F9 Conditions. Samples shall be submitted to the Materials Bureau for approval 45 days prior to use. Submit additional quality assurance samples, taken during installation, for testing at a minimum rate of 1 sample per 100 square meters, or as directed by the Engineer.

CONSTRUCTION DETAILS

Weather Limitations. Do not apply epoxy binder material on a wet surface, when the ambient and/or surface temperature is below 5°C or above 35°C, or when anticipated weather conditions would prevent the proper construction of the surface treatment as determined by the manufacturer.

Surface Preparation. Existing surfaces shall be cleaned by use of mechanical sweepers, high pressure air or other methods approved by the Engineer prior to use. Receiving surfaces must be clean, dry and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces. Surfaces may need to be washed with a mild detergent, rinsed and dried using a hot compressed air lance. Remove any existing pavement markings as deemed necessary by the manufacturer. Adequate cleaning of all surfaces will be determined by the Engineer and/or manufacturer's representative.

Cover and protect all existing pavement markings and utilities prior to placement.

Clean and fill all inadequately sealed joints and cracks, including shoulder areas.

A manufacturer's representative must be on site to provide technical assistance during surface preparation, material placement and during any necessary remedial work.

Installation. Place the surface treatment in accordance with manufacturer's recommended methods at the thicknesses and details as shown in the contract documents. The epoxy binder components (A & B) shall be proportioned to the correct ratio (50:50 ± 5% by weight), mixed using a low speed high torque drill fitted with a helical stirrer, spread by serrated edge squeegee.

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Epoxy binder shall be uniformly distributed over the section to be treated and within the temperature range specified. Operations shall proceed in such a manner that will not allow the epoxy material to chill, set up, dry, or otherwise impair retention of the covered aggregate.

The mixed components may be machine or hand applied onto the cleaned surface at a minimum coverage rate of 1.35 Kg/m². Hand applied binder shall be uniformly spread onto the substrate surface by means of a serrated edged squeegee. Machine applied distributing equipment shall include accurate measuring devices and/or calibrated containers and thermometers for measuring the binder temperature prior to placement.

Immediately apply the appropriate aggregate, Type I or Type II, at an excess rate of 9-10 Kg/m² coverage.

Utilities, drainage structures, curb and any other structure within/ adjacent to the treatment location shall be protected against the application of the surface treatment materials.

The placement of this material does not require any compaction.

Curing. Allow the treatment to cure in accordance with manufacturer recommendations, approximately 3 hours at an ambient temperature of 20°C, remove the excess aggregate by hand or suction sweeping before opening to traffic. Additional sweeping may be necessary after the system fully cures. The coverage rate of the retained aggregate is approximately 7-8 Kg/m².

METHOD OF MEASUREMENT

This work shall be measured as the number of square meters of architectural treatment material installed as shown in the contract documents, or as directed by the Engineer.

BASIS OF PAYMENT

The unit price bid per square meter shall include the cost of all labor, materials and equipment necessary to complete the work, except that any necessary joint and crack work will be paid for under their appropriate items.

Payment will be made under:

Item No.	Item	Pay Unit
01608.9501 M	Colored Surface Treatment Type 1, Traffic Grade	Square Meter
01608.9502 M	Colored Surface Treatment Type 2, Pedestrian Grade	Square Meter