

ITEM 601.0111 01- EXPOSED AGGREGATE CONCRETE SURFACE

DESCRIPTION. Provide an exposed aggregate finish on newly placed portland cement concrete.

MATERIALS.

Water.....	712-01
Water Reducing and Retarding Admixtures (ASTM TYPE D).....	711-08
Penetrating Type Protective Sealer.....	717-03

In addition to meeting the requirements of 711-08, the water reducing and retarding admixture must meet NYSDEC Regulation Part 205: Architectural and Industrial Maintenance (AIM) Coatings, with a maximum volatile organic compound (VOC) limit of 780 g/l. Submit supporting documentation to the Engineer before producing concrete.

In addition to meeting coarse aggregate requirements in Section 501, Portland Cement Concrete, coarse aggregate must meet the appearance indicated in the contract documents, if any. Submit a sample to the EIC before producing concrete.

CONSTRUCTION DETAILS.

Job Site Sample. Construct a 1.5 m x 1.5 m (minimum) job site sample at a location approved by the Engineer using the same concrete that will be used for the permanent work. Construct a maximum of three samples to demonstrate the proposed process and final texture to the satisfaction of the Engineer (in conjunction with Designers and/or Landscape Architects). The sample(s) will not be part of the permanent work. If constructed on site, remove the sample(s) at the completion of the work.

Concrete placement. Place concrete according to the specified concrete item(s), except as modified herein.

Expose aggregate. Apply the retarding admixture in accordance with the manufacturer's instructions after any bleed water has evaporated, but before the concrete has set to the extent that renders the retarder ineffective. (This time frame will vary with the environment, equipment, and concrete admixtures used.) Provide those instructions to the Engineer. Pressure wash the retarded surface at the appropriate time such that an exposed aggregate surface is achieved that substantially conforms to the accepted jobsite sample.

Curing. After any standing water dries, cure in accordance with the specified concrete item(s), except substitute a clear membrane curing compound for a white-pigmented curing compound when membrane curing compounds are specified.

Apply Sealant. Power wash the exposed aggregate surface 2 weeks (minimum) after curing to remove curing compounds, laitance, oil, dirt or other foreign particles. Allow the concrete to dry a minimum of 24 hours prior to applying a penetrating type protective sealer in accordance with the manufacturer's instructions. Provide those instructions to the Engineer before pressure washing.

METHOD OF MEASUREMENT. The work will be measured as the number of square meters of 601.0111_01, Exposed Aggregate Concrete Surface, measured to the nearest 0.1 m²

BASIS OF PAYMENT. Include the cost of all labor, material, and equipment necessary to perform the work in the unit price bid for Exposed Aggregate Concrete Surface. Concrete placement is paid for under a separate pay item.