

ITEM 560.33 11 - PATCH REPAIR OF BRICKWORK MASONRY WITH VERTICAL PATCHING MATERIAL

DESCRIPTION

This work shall consist of furnishing and installing PATCH REPAIR OF BRICKWORK MASONRY WITH VERTICAL PATCHING MATERIAL in accordance with the contract documents and as directed by the Engineer.

MATERIALS

Materials used in this work shall conform to the following requirements:

Vertical Patching Material	701-08
Water	712-01
Quilted Covers (for curing)	711-02
Plastic Coated Fiber Blankets (for curing)	711-03
Membrane Curing Compound	711-05
Burlap (for curing)	711-06
Admixtures	711-08

Vertical Patching Material: The patching material used shall be a brand that appears on the Department's Approved List and shall be suitable for application on brickwork masonry. The contractor shall submit technical data sheets for the proposed material to the Engineer for approval.

CONSTRUCTION DETAILS

- 1. Vertical or Essentially Vertical Locations.** Approved patching material shall be used. Patching material shall be placed at locations where the depth of deterioration in the masonry is 10 mm or more. Average depths shall be determined by a measurement procedure acceptable to the Engineer.
- 2. Preparation of Surface.** All surfaces receiving new material shall be cleaned in accordance with the requirements specified by the manufacturer in the patching material data sheet. At a minimum this shall include power washing with water to provide a clean surface for bonding the patching material.
- 3. Placement.** Prior to the placement of new material, receiving surfaces shall be pre-wetted a minimum of 24hrs to achieve a "saturated surface dry" (SSD) state. To confirm that the surface is SSD, use the "paper towel test". Place a paper towel over the surface immediately prior to applying the patching material. Press the paper towel to the surface with one hand. If the towel only soaks up water under the hand, the wall is SSD. If the rest of the paper towel soaks up water, the wall is too wet. If none of the towel soaks up water, the wall is too dry.
- 4. Vertical Patching Material Placement.** Patching material shall be prepared in accordance with the directions provided by the manufacturer. The Engineer shall be given two copies of

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the manufacturer's printed instruction at least two weeks prior to the start of all patching work. This shall include the mixing proportions and the mixing method. The manufacturer's literature shall be consulted for surface preparation and priming instructions. The material shall be troweled on in layers, the thickness of which depends on the material consistency and the location and profile of the surface to which it is applied.

- 5. Vertical Patching Material Curing.** Manufacturer's recommendations for curing Vertical Patching Material shall be followed for the patching material applications. At a minimum the patch material shall be wet cured for at least 24 hours after application.

METHOD OF MEASUREMENT

This work will be measured as the number of square meters of PATCH REPAIR OF BRICKWORK MASONRY WITH VERTICAL PATCHING MATERIAL satisfactorily furnished and installed. Measurement shall be made as the number of square meters of the plane projection of the repaired area as indicated on the contract plans, or where ordered or approved by the Engineer. Measurement shall be made prior to the placement of patching material.

BASIS OF PAYMENT

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