

ITEM 07560.02 M - MASONRY GROUT (MATERIAL)

DESCRIPTION:

The work shall consist of supplying grout materials and mixing grout for crack repairs and filling voids.

MATERIALS:

Portland cement shall be Type 2 cement meeting the material requirements of Subsection 701-01 of the Standard Specifications, except that the maximum permissible alkali content shall be 0.60 percent.

Hydrated lime shall meet the requirements of ASTM C 207, Type SA.

Grout Sand shall meet the requirements of Subsection 703-04 of the Standard Specifications.

Water used for mixing and curing mortar shall meet the requirements of Subsection 712-01 of the Standard Specifications.

Admixtures shall meet the requirements of Subsection 711-08 of the Standard Specifications.

CONSTRUCTION DETAILS:

The Contractor shall design grout mixtures consisting of portland cement, lime, sand, water and admixtures, with a minimal water content, that will flow throughout the crack or void. Cementitious material shall be proportioned 1 part portland cement to 2 parts lime for all grout mixes unless otherwise approved by the Engineer. Sand shall be omitted for grout mixtures intended to be placed into cracks less than 5 mm wide.

The Contractor shall perform mix trials to select suitable grout proportions for the various applications. Where grout injection ports are to be used, the Contractor shall demonstrate that the grout to be used flows satisfactorily through an installed injection port.

Grout shall be mixed using a mechanical mortar mixer, a drill powered paddle mixer, or other methods approved by the Engineer. (These types of mixers fail to break up small clumps of cement, which leads to plugging in cracks smaller than 3 mm)

When grout is being prepared for placement into cracks less than 3 mm wide, mixing shall be accomplished using a high-speed drill (approx. 3000 rpm) equipped with a Jiffler type mixing paddle, and mixing for a minimum of five minutes.

Measured dry ingredients shall be added to the predetermined volume of water when mixing. Grout shall be placed immediately after mixing. Grout that is not placed within 30 minutes of initial mixing shall be discarded.

All containers and equipment used for mixing grout shall be clean and rust-free.

METHOD OF MEASUREMENT:

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This work will be measured by the number of liters of grout material satisfactorily incorporated into the work.

BASIS OF PAYMENT:

The unit price bid per liter shall include the cost of furnishing and mixing grout materials suitable for the intended use.

The cost of furnishing all labor, other materials, equipment necessary to perform crack repairs shall be paid for separately.

No payment will be made for material supplied to correct any damage caused by the Contractor's operations. No payment will be made for grout material that is not satisfactorily incorporated into the work.