

ITEM 11560.1003 - SEAL BRICKWORK CRACKS UP TO 12 mm WIDE

DESCRIPTION:

The work shall consist of supplying grout materials furnishing all labor, and all other materials and equipment necessary to perform crack repairs, at locations indicated on the drawings and where directed by the Engineer.

MATERIALS:

Portland cement, Type 2 §701-01
(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 §703-04

Water used for mixing and curing mortar §712-01

Admixtures §711-08

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. 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 prepared for placement into cracks between 3 mm and 12 mm wide shall be mixed using a mechanical mortar mixer, a drill powered paddle mixer, or other methods approved by the Engineer.

Grout prepared for placement into cracks less than 3 mm wide, shall be mixed using a high-speed drill (approx. 3000 rpm) equipped with a Jiffler type mixing paddle, and the minimum mixing time shall be 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.

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METHOD OF MEASUREMENT:

This work will be measured as the number of meters of cracks sealed.

BASIS OF PAYMENT:

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

No payment will be made for labor and materials needed to correct any damage caused by the Contractor's operations.