

826 - SHOT-CRETE CONCRETE

SECTION 826

SHOT-CRETE CONCRETE

826.1 DESCRIPTION

Apply the concrete by pneumatically projecting the concrete at high velocity onto a surface as shown in the Contract Documents.

BID ITEM

Shot-crete

* Unit of Measurement shown in the Contract Documents

UNITS

*

826.2 MATERIALS

a. Materials for Shot-Crete Concrete. Provide aggregate for concrete that complies with FA-A, **DIVISION 1100**. The Engineer will allow modification of the grading requirements for FA-A, if the modification improves the product.

Provide either Type I or Type II portland cement. The Engineer will accept any recognized brand of cement that is free of lumps and warehouse pack based on visual inspection.

Provide materials for curing the shot-crete concrete that comply with **DIVISION 1400**.

Provide water that complies with **DIVISION 2400**.

b. Proportioning for Shot-Crete Concrete. Combine (by weight) the cement and aggregate within the range of 1 part cement to 3 - 4½ parts aggregate.

Regulate the water in the mixture to achieve maximum adhesion and minimum rebound and slumping.

The Engineer may adjust the proportions, if necessary, to obtain the most appropriate mixture for the work.

826.3 CONSTRUCTION REQUIREMENTS

Apply the shot-crete concrete to the surfaces designated in the Contract Documents. Reduce the layer thickness of the shot-crete if the applied material sags.

Do not work rebound aggregate back into the applied concrete. Remove and dispose of all rebound aggregate. Do not salvage and reuse rebound aggregate.

Cure the shot-creted area by keeping the surface of the area continuously damp for a minimum of 4 days. If the 4 day damp cure is impracticable, apply Type 2 liquid membrane-forming compound as the curing medium.

826.4 MEASUREMENT AND PAYMENT

The Engineer will measure the shot-crete concrete by the units shown in the Contract Documents when shown as a bid item to the contract.

Payment for the "Shot-crete" at the contract unit price is full compensation for the specified work.