

SECTION 106

MASONRY MORTAR SAND AND EPOXY RESIN MORTAR SAND

106.1 MASONRY MORTAR SAND REQUIREMENTS

A. General

Aggregate for use in masonry mortar shall consist of natural sand or manufactured sand. Manufactured sand is the product obtained by crushing stone, gravel, or air-cooled iron blast-furnace slag specially processed to assure suitable particle shape as well as gradation.

B. Gradation

Percent Passing

	Natural Sand	Manufactured Sand
No. 4	100	100
No. 8	95-100	95-100
No. 16	70-100	70-100
No. 30	40- 75	40- 75
No. 50	10- 35	20- 40
No. 100	2- 15	10- 25
No. 200	---	0- 10

Not more than 50 percent may be retained between any two consecutive sieves listed.

Not more than 25 percent may be retained between the No. 50 and No. 100 sieves.

C. Deleterious Substances

The amount of deleterious substances shall not exceed the following limits by dry weight:

1. Clay lumps and friable particles.....1.0%
2. Lightweight particles having a specific gravity
of less than 1.95.....0.5%

D. Soundness

When the fine aggregate is subject to five alternations of the sodium sulfate soundness test, the weighted loss shall not exceed 10 percent by weight.

A satisfactory soundness record for deposits from which material has been used for 5 years or more may be considered as a substitute for performing the sodium sulfate soundness test.

E. Organic Impurities

The aggregate shall be free of injurious amounts of organic impurities. Except, as herein provided, aggregates subjected to the test for organic impurities and producing a color darker than the standard shall be rejected.

Aggregate failing in the test may be used if the discoloration is due principally to the presence of small quantities of coal ignites or similar discrete particles.

Aggregate failing in the test may be used if, when tested for the effect of organic impurities on strength of mortar, the relative strength at 7 and 28 days calculated in accordance with Section 10 of AASHTO T71 Test for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar is not less than 95 percent.

106.2 EPOXY RESIN MORTAR SAND REQUIREMENTS

A. General

The aggregate shall be silica sand.

B. Gradation

Sieve Size	Percent Passing
No. 8	100
No. 50	15 to 40
No. 100	0 to 10
No. 200	0 to 0.5

106.3 METHOD OF MEASUREMENT & 106.4 BASIS OF PAYMENT

Sand for mortar shall be incidental to the various bid items. There will be no separate measurement and payment for sand used for mortar.

END OF SECTION