

- a. Ensure the quicklime meets one of the following grade requirements (by weight):

Grade A	Grade B
100% passes the 3/8 in (9.5 mm) sieve	100% passes the No. 10 (2.00 mm) sieve
0% passes the 1/4 in (6.3 mm) sieve	

- b. Furnish certified test reports with each shipment of lime attesting that the lime meets the requirements of the Specification. However, the Engineer may inspect, test, and reject the material at any time.
- c. You may use lime from more than one source or more than one type on the same Project, but do not mix the limes.
- d. Protect the lime from exposure until used. Ensure that the lime is dry enough to flow freely when handled.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

Test the hydrated and quicklime used for soil stabilization according to ASTM C 977.

D. Materials Warranty

General Provisions 101 through 150.

882.2.03 Lime for Asphaltic Concrete

A. Requirements

Use hydrated lime that meets the chemical and physical properties of AASHTO M 303, Type I.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

1. Run the chemical analysis of hydrated lime used in asphaltic concrete according to ASTM C 25.
2. Test the physical properties of the hydrated lime according to the residue test in ASTM C 110.

NOTE: QPL 41 for lime is used in asphaltic concrete only.
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3. See QPL 41 for acceptable hydrated lime that meets the requirements of this Specification.

D. Materials Warranty

General Provisions 101 through 150.

Section 883—Mineral Filler

883.1 General Description

This section covers mineral filler added as a separate ingredient for use in bituminous paving mixtures. Use mineral filler that consists of finely divided mineral matter such as rock dust, slag dust, hydrated lime, hydraulic cement, fly ash, or other suitable mineral filler. Ensure that at the time of use it is sufficiently dry, flows freely, and is free from lumps.

883.1.01 Related References

A. Standard Specifications

General Provisions 101 through 150.

B. Referenced Documents

AASHTO PP 1

AASHTO T 90

AASHTO T 240

AASHTO TP 1

AASHTO TP 5

GDT 2

883.2 Materials

883.2.01 Mineral Filler

A. Requirements

Mineral filler shall be graded within the following limits:

Sieve Size	Percent Passing
No. 30 (600 μm)	100
No. 50 (300 μm)	95-100
No. 200 (75 μm)	55-100

Ensure that the mineral filler is free from organic impurities and has a plasticity index not greater than 4. Plasticity index limits are not appropriate for hydrated lime and hydraulic cement.

Thoroughly blend mineral filler to be used in Stone Matrix Asphalt mixtures with asphalt cement and fiber stabilizing additives into a homogenous mixture. The total fine mortar shall then meet the following requirements:

Test	Specification
Unaged DSR, $G^*/\sin\delta$ (kPa)	5 minimum
RTFO Aged DSR, $G^*/\sin\delta$ (kPa)	11 minimum
PAV Aged BBR, Stiffness (MPa)	1500 maximum

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

Test as follows:

Sieve Analysis of Mineral Filler	GDT 22*
Plasticity Index	AASHTO T 90
* A laser diffraction particle size distribution analyzer may be used in lieu of this test.	

Mortar Properties to be based on NCAT procedure for Laboratory Preparation and Testing of HMA Mortars using AASHTO T240, AASHTO PP1, AASHTO TP1, and AASHTO TP5.

D. Materials Warranty

General Provisions 101 through 150.

Section 884—Chlorides

884.1 General Description

This section includes the requirements for calcium chloride.

884.1.01 Related References

A. Standard Specifications

General Provisions 101 through 150.