

SPECIFICATIONS FOR AGGREGATE FOR SEAL COAT COVER

940. 1 SCOPE

These Specifications govern all operations necessary for and pertaining to the production of aggregate for use as a bituminous seal coat cover.

940. 3 MATERIALS

3.1 Source of Supply

The Contractor shall, at least ten days prior to the commencement of production, notify the Engineer as to the source of all aggregate to be used on the project including supplementary granular material.

At the request of the Contractor, the Department will test representative aggregate samples obtained from the source of supply. Each sample shall contain not less than 45 kg and the Contractor shall assume all costs incurred in obtaining and transporting the samples to the Department's Testing Laboratory.

Test results for gradation and physical properties will be provided but will not constitute acceptance of material in the source of supply.

Prior to the production of aggregates, the source of supply shall be cleared, grubbed and stripped of overburden to an extent and in a manner satisfactory to the Engineer.

3.2 Aggregate Requirements

Aggregate shall consist of sound durable particles of crushed rock, gravel, stone, sand and fines free from sod, roots and organic material.

The crush count is defined as the percentage by weight of aggregate particles retained on a 4.75 mm sieve which have at least one freshly fractured face.

The Los Angeles Abrasion Loss and gradation analysis will be performed using A.S.T.M. test procedures.

Shale Content is defined as the percent by weight of the particles retained on a 4.75 mm sieve that are shale particles.

Ironstone Content is defined as the percent by weight of the particles retained on a 4.75 mm sieve that are ironstone particles.

940. 3.2 Aggregate Requirements (Cont'd)

The gradation and physical requirements for each Class shall be as follows:

Passing Standard Sieves	Seal Coat Cover		
	A	B	C
16 mm sieve			100 %
12.5 mm sieve	100 %	100 %	80 – 100 %
4.75 mm sieve	0 – 40 %	0 – 60 %	0 – 65 %
425 um sieve	0 – 15 %	0 – 15 %	0 – 15 %
75 um sieve	0 – 4 %	0 – 4 %	0 – 5 %
Min. Crush Count	30 %	30 %	30 %
Max. Los Angeles Abrasion Loss	30 %	30 %	30 %
Max. Shale Content	3 %	3 %	3 %
Max. Ironstone Content	11 %	11 %	11 %

The minimum value for crush count and the maximum values for abrasion loss, shale and ironstone content will be based on the cumulative average of all tests, plus or minus one standard deviation.

Oversized material retained on the upper sieve will be permitted to a maximum of 3% of the sample, only if 100% of the oversize will pass a sieve having openings 3 mm larger than the upper sieve.

940. 7 TESTING SEAL COAT COVER AGGREGATE

7.1 Testing During Production

Seal Coat Cover will be subject to testing by the Engineer at the time the material is being produced and at the stockpile site. Before hauling, the Contractor shall place the processed aggregate in a stockpile separate from the surge pile until satisfactory production tests have been completed. Rejected material shall be immediately moved either to the vicinity of the feed end of the crusher for washing, screening or other re-processing or to an area completely removed from any approved aggregate. Where tests indicate consistently uniform aggregate that is well within gradation limits, direct hauling from the crusher to the final stockpile site will be permitted.

7.2 Testing Previously Prepared Aggregate

The Contractor may use seal coat aggregate that was prepared and stockpiled not under the terms of the Contract. In this event the Contractor shall, unless otherwise permitted, pass material uniformly over a belt to provide representative samples for testing. On the basis of the tests, the Engineer may permit the Contractor to haul the aggregate to the final stockpile site.

940. 7.3 Sampling Device

Crushers shall be equipped with an approved mechanical sampling device for obtaining samples off the main delivery belt. Crushers operating secondary delivery belts feeding in excess of 150 tonnes per hour shall require a second approved mechanical sampling device. Secondary delivery belts feeding less than 150 tonnes per hour will require the Contractor to supply either a "V" board or a second approved mechanical sampling device.