

SECTION 480—BITUMINOUS SURFACE TREATMENT

480.1 DESCRIPTION—This work is two applications of bituminous material, with each application of bituminous material immediately followed by an application of coarse aggregate.

480.2 MATERIAL—

(a) **Bituminous Material.** [Section 470.2\(a\)](#)

(b) **Coarse Aggregate.** Type A, No. 8 and No. 67, [Section 703.2](#).

Provide aggregate to achieve at least the SRL designation indicated in the Contract Item and from sources supplying aggregate for use in wearing courses. The Contractor may provide a blend of two aggregates if the blend has an SRL equal to or better than that specified. Blends are 50% by mass (weight) of each aggregate. Mix the aggregates by an approved method.

480.3 CONSTRUCTION—At least 2 weeks before the scheduled start of work, submit a surface treatment design for the Representative's review. Design the surface treatment according to Appendix E of Bulletin 27.

(a) **Conditioning Existing Surface.** [Section 470.3\(a\)](#)

(b) **Application of Bituminous Material and Coarse Aggregate.** [Section 470.3\(b\)](#) and (c), except apply at the following rates and according to the following sequence:

FIRST APPLICATION

Apply bituminous material at a rate of 1.13 L/m² to 2.25 L/m² (0.25 gallon per square yard to 0.50 gallon per square yard). Use a mechanical spreader to spread 13.6 kg/m² to 24.4 kg/m² (25 pounds per square yard to 45 pounds per square yard) of No. 67 coarse aggregate. Roll the aggregate as specified below and then sweep off the loose material. Allow the first application to cure to the Representative's satisfaction before spreading the second application.

SECOND APPLICATION

Apply bituminous material at a rate of 1.13 L/m² to 2.25 L/m² (0.25 gallon per square yard to 0.50 gallon per square yard). Use a mechanical spreader to spread 8.1 kg/m² to 16 kg/m² (15 pounds per square yard to 30 pounds per square yard) of No. 8 coarse aggregate. Roll the aggregate as specified below.

(c) **Rolling.** Provide pneumatic-tire rollers as specified in [Section 108.05\(c\)3.f](#) and with a contact pressure from of 280 kPa to 340 kPa (40 pounds per square inch to 50 pounds per square inch). Use a sufficient number of rollers to cover the width of stone spread during the first pass. When the bituminous material has a tacky surface, backroll the aggregate with a pneumatic-tire roller or a steel-wheel tandem roller until the aggregate adheres to the bituminous material. If directed, eliminate backrolling. Do not roll in the vibratory mode.

(d) **Protection of Surface.** [Section 470.3\(d\)](#)

480.4 MEASUREMENT AND PAYMENT—

(a) **Area Basis.** Square Meter (Square Yard)

(b) Material Used Basis.

1. **Coarse Aggregate.** Square Meter (Square Yard)

2. **Bituminous Material.** Liter (Gallon)

(c) Crack Filling and Sealing. [Section 469.4](#)