

## SECTION 503—PROTECTIVE COATING FOR CEMENT CONCRETE PAVEMENT

**503.1 DESCRIPTION**—This work is the application of protective coating, to concrete pavements and shoulders.

**503.2 MATERIAL**—

- Boiled Linseed Oil, AASHTO M 233, from a manufacturer listed in [Bulletin 15](#). Certify as specified in [Section 106.03\(b\)3](#).

**503.3 CONSTRUCTION**—

**(a) General.** Thoroughly dry and clean concrete surfaces of all foreign matter, which would prevent protective coating penetration, adhesion, or drying. Allow a minimum of 28 days to elapse before applying protective coating on surfaces cured with white membrane curing compound. Allow 7 days to elapse after removing curing covers and before applying protective coating on all other types of curing methods. Apply the protective coating before subjecting the concrete surface to deicing chemicals.

**(b) Application.** Apply protective coating according to manufacturer recommendations. At a minimum, apply in two coats, at a rate of 1 L/11 m<sup>2</sup> (0.02 gallon per square yard) for each coat. Apply, as directed, by pressure-spray equipment, by portable hand spray equipment, by brushing, or by a combination of methods, to ensure complete coverage of treated concrete surfaces.

Unless otherwise permitted, apply in weather suitable for drying when the air temperature and concrete surface temperature are between 2 °C and 40 °C (35F and 100F).

Unless otherwise recommended by the manufacturer, allow the first application to dry for a period of at least 24 hours before the second application. If the initial application is made on concrete surfaces carrying traffic, close these surfaces for a period of at least 4 hours, until penetration is complete and tackiness has disappeared.

After the second application, close surface to traffic for a period of at least 6 hours or until tackiness has disappeared and no pickup results from use.

**(c) Safety Precautions.** Protect traffic, workers, and concrete surface against the occurrence of fire, if in the presence of flammable and volatile mineral spirits blended into the protective coating. Before using the treated pavement surface, satisfactorily correct slippery pavement conditions, other hazards, or inconvenience to traffic, resulting from the protective coating application as directed.

**503.4 MEASUREMENT AND PAYMENT**—Square Meter (Square Yard)