
Standard Specification for Durable Green Bike Lane Surface Treatments for Asphalt and Concrete Pavements with Exposure to Vehicular Traffic

AASHTO Designation: PP 117-23¹

First Published: 2023

Technical Subcommittee: TS 4c, Markings and Coatings



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This specification describes furnishing and applying a durable green bicycle lane surface treatment (DGBLST) for asphalt and concrete pavements that is designed to be exposed to vehicle traffic.
- 1.2. *The DGBLST is comprised of, at a minimum, a single layer using:*
 - 1.2.1. Binder resin system with aggregate incorporated into the binder resin. (Binder resins include 100 percent polymeric or methyl methacrylate (MMA), and/or
 - 1.2.2. Preformed or hot-applied thermoplastic.
- 1.3. *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
 - < M 235M/M 235, Epoxy Resin Adhesives
 - < T 96, Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
 - < T 242, Frictional Properties of Paved Surfaces Using a Full-Scale Tire
 - < T 255, Total Evaporable Moisture Content of Aggregate by Drying
- 2.2. *ASTM Standards:*
 - < D36/D36M, Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
 - < D638, Standard Test Method for Tensile Properties of Plastics
 - < D2240, Standard Test Method for Rubber Property—Durometer Hardness
 - < D4060, Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
 - < D4541, Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Tester

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