Standard Specification for

Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt

AASHTO Designation: M 347-22[1]

Adopted: 2022

Technical Subcommittee: 5b, Bridge and Pavement Preservation

AASHTO

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1. SCOPE

1.1. This standard covers the requirements for component materials and asphalt mixtures for full-depth reclamation (FDR) stabilized with emulsified asphalt to produce a job mix formula.

1.2. This standard specifies minimum quality requirements for full-depth reclamation mixtures, the emulsified asphalt and other additives.

2. REFERENCED DOCUMENTS

2.1. *AASHTO Standards*:

- M 85, Portland Cement
- M 140, Emulsified Asphalt
- M 208, Cationic Emulsified Asphalt
- M 216, Quicklime and Hydrated Lime for Soil Stabilization
- M 320, Performance-Graded Asphalt Binder
- R 109, Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design
- T 283, Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage

2.2. *Other Reference*:

- LTPP Seasonal Asphalt Concrete Pavement Temperature Models, LTPPBind 3.0/3.1

3. TERMINOLOGY

3.1. *full-depth reclamation (FDR)*—the on-site rehabilitation technique in which the full thickness of the asphalt pavement and a predetermined portion of the underlying materials (base, subbase, subgrade, or some combination of the three) is uniformly pulverized and blended with a stabilizing agent, with or without a combination of additives, generating and reusing 100 percent of the reclaimed material, with the resulting pavement serving as a base layer overlaid with a wearing surface.

Note 1—Typical stabilizing agents for FDR include emulsified asphalt, foamed asphalt, Portland cement and lime. Typical additives include lime, Portland cement and aggregate.

3.2. *Type 1 FDR*— mixtures containing less than 8 percent passing No. 200 (0.075-mm) sieve of the combined material.

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