
Standard Specification for Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt

AASHTO Designation: MP 45-20¹

**Technical Subcommittee: 5b, Bridge and Pavement
Preservation**

Release: Group 1 (April)



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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
 - [PP 101](#), Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design
 - [T 283](#), Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage
- 2.2. *Other References:*
- 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.