



Standard Specification for Cold-Mixed, Cold-Laid Bituminous Paving Mixtures¹

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1. Scope

1.1 This specification covers cold-mixed, cold-laid and recycled cold-mixed, cold-laid bituminous paving mixtures for base, binder, leveling, and surface courses.

2. Referenced Documents

2.1 ASTM Standards:

- C 127 Test Method for Density, Relative Density, (Specific Gravity) and Absorption of Coarse Aggregate²
- C 128 Test Method for Density, Relative Density (Specific Gravity) and Absorption of Fine Aggregate²
- C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates²
- D 8 Terminology Relating to Materials for Roads and Pavements³
- D 75 Practice for Sampling Aggregates³
- D 140 Practice for Sampling Bituminous Materials³
- D 242 Specification for Mineral Filler for Bituminous Paving Mixtures³
- D 448 Classification for Sizes of Aggregate for Road and Bridge Construction³
- D 490 Specification for Road Tar³
- D 546 Test Method for Sieve Analysis of Mineral Filler for Bituminous Paving Materials³
- D 692 Specification for Coarse Aggregate for Bituminous Paving Mixtures³
- D 977 Specification for Emulsified Asphalt³
- D 979 Practice for Sampling Bituminous Paving Mixtures³
- D 1073 Specification for Fine Aggregate for Bituminous Paving Mixtures³
- D 2026 Specification for Cutback Asphalt (Slow-Curing Type)³
- D 2027 Specification for Cutback Asphalt (Medium-Curing Type)³
- D 2028 Specification for Cutback Asphalt (Rapid-Curing Type)³
- D 2172 Test Methods for Quantitative Extraction of Bitumen from Bituminous Paving Mixtures³

- D 2397 Specification for Cationic Emulsified Asphalt³
- D 2399 Practice for Selection of Cutback Asphalts³
- D 2489 Test Method for Estimating Degree of Particle Coating of Bituminous-Aggregate Mixtures³
- D 2728 Practice for Paving Uses and Application Temperatures for Road Tars³
- D 3515 Specification for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures³
- D 3628 Practice for Selection and Use of Emulsified Asphalts³
- D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils⁴
- E 145 Specification for Gravity-Convection and Forced-Ventilation Ovens⁵

3. Terminology

3.1 Definitions are in accordance with Terminology D 8.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *cold-mixed, cold-laid bituminous paving mixtures*—mixtures of coarse and fine aggregates, or coarse or fine aggregate alone, with or without mineral filler, uniformly mixed and laid at or near ambient temperature.

3.2.2 *cold-mixed, cold-laid recycled bituminous paving mixtures*—mixtures of bitumen aggregate for recycling with additional mineral aggregate as necessary, with or without mineral filler, mixed at or near ambient temperatures with additional bitumen.

3.2.3 *bitumen-aggregate for recycling*—bituminous pavement or paving mixture removed from its original location and reduced by suitable means, after removal or in place, to such particle size as may be required for use in cold-mixed, cold-laid recycled bituminous paving mixtures.

4. Ordering Information

4.1 Orders for cold bituminous paving mixtures under this specification shall include the following information:

4.1.1 Type of bitumen (emulsified asphalt, cutback asphalt, or tar),

4.1.2 Grade of bitumen,

4.1.3 The composition of the bituminous paving mixture (dense mixture and mix designation; open mixture and mix

¹ This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.27 on Cold Mix Asphalts.

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² *Annual Book of ASTM Standards*, Vol 04.02.

³ *Annual Book of ASTM Standards*, Vol 04.03.

⁴ *Annual Book of ASTM Standards*, Vol 04.08.

⁵ *Annual Book of ASTM Standards*, Vol 14.04.