



Standard Specification for Emulsified Refined Coal-Tar (Driveway Sealer, Ready to Use, Primarily Residential Grade)¹

This standard is issued under the fixed designation D6946/D6946M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

^{ε1} NOTE—Units information was editorially corrected in August 2013.

1. Scope

1.1 This specification covers mineral-colloid-stabilized, emulsified refined coal tar suitable for use as a weather-protective and petroleum (aliphatic) solvent resistant coating over bituminous concrete pavements.

1.2 Both products specified are prepackaged ready to use driveway sealers primarily for retail homeowner use.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, 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 *ASTM Standards:*²

[C136 Test Method for Sieve Analysis of Fine and Coarse Aggregates](#)

[C142 Test Method for Clay Lumps and Friable Particles in Aggregates](#)

[D140 Practice for Sampling Bituminous Materials](#)

[D490 Specification for Road Tar](#)

[D2939 Test Methods for Emulsified Bitumens Used as](#)

¹ This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.09 on Bituminous Emulsions.

Current edition approved August 1, 2013. Published August 2013. Originally approved in 2003. Last previous edition approved in 2003 as D6946 - 03, which was withdrawn in July 2012 and reinstated August 2013. DOI: 10.1520/D6946_D6946M-13E01.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

[Protective Coatings \(Withdrawn 2012\)³](#)
[D5727 Specification for Emulsified Refined Coal Tar \(Mineral Colloid Type\)](#)

3. Terminology

3.1 For both types of mixtures, the ingredients are combined during the manufacturing process and shipped ready-to-use.

3.1.1 *Type I material*—a mixture of refined coal tar emulsion meeting Specification [D5727](#), water, and optional additive.

3.1.2 *Type II material*—a mixture of refined coal tar emulsion meeting Specification [D5727](#), water, aggregate, and optional additive.

4. Classification

4.1 This specification is designed to give specifying authorities the information necessary to ensure that the appropriate refined coal tar emulsion mixtures are specified for protecting bituminous concrete pavements where fuel resistance is required.

5. Materials and Manufacture

5.1 *Base Refined Coal Tar Emulsion*—This emulsion shall be made using binders prepared from a high temperature refined coal tar conforming to the requirements of Specification [D490](#) for RT11 or higher. Base refined coal tar emulsion shall be in accordance with all requirements of Specification [D5727](#).

5.2 *Aggregate*—Aggregate is used in Type II materials to improve traction and wearability. The aggregate shall be either a natural or manufactured aggregate composed of clean, hard, durable particles free of clay and other objectionable material when testing in accordance with Test Method [C142](#). (Boiler slag has been used successfully.)

NOTE 1—It is recommended that the nominal maximum size of the aggregate not exceed 0.6 mm [No. 30] sieve when tested in accordance with Test Method [C136](#).

³ The last approved version of this historical standard is referenced on www.astm.org.