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## Standard Specification for Emulsified Refined Coal-Tar (Ready to Use, Commercial Grade)<sup>1</sup>

This standard is issued under the fixed designation D6945/D6945M; 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 ( $\varepsilon$ ) indicates an editorial change since the last revision or reapproval.

Note-Units information was editorially revised in June 2011.

## 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. This product is typically applied to commercial lots and other low speed bituminous concrete pavements suitable for protection.

1.2

1.2 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.

1.3 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 requirements prior to use.

## 2. Referenced Documents

2.1 ASTM Standards:<sup>2</sup>

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

**Document Preview** D2939 Test Methods for Emulsified Bitumens Used as Protective Coatings

D3423 Practice for Application of Emulsified Coal-Tar Pitch(Mineral Colloid Type)

D5727 Specification for Emulsified Refined Coal Tar (Mineral Colloid Type)

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3.1 The refined coal tar emulsion mixed at the contractor's yard or at the job site shall meet the requirements of Specification D5727. Mixture Types I and II (see Appendix A of Practice D3423 for standard definition of terms) are described below:

3.1.1 Type I material—a mixture of refined coal tar emulsion meeting Specification D5727, water, and aggregate.

3.1.2 Type II material—a mixture of refined coal tar emulsion meeting Specification D5727, water, aggregate, and additive.

## 4. Classification

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

4.2 Normal aggregate loadings for Type I materials should range from 0.360 to 0.600 kg/L (3[3 to 5 lb/gal).lb/gal]. Type II materials can have slightly higher loadings of aggregate; however, aggregate loadings in excess of 0.720 kg/L (6 lb/gal)[6 lb/gal] are strongly discouraged.

NOTE 1-Several researchers have shown that high aggregate loadings result in a lack of fuel resistance as determined by the Resistance to Kerosene test according to Test Methods D2939. Poor adhesion may also occur with high sand loadings.

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<sup>&</sup>lt;sup>1</sup> 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.

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<sup>&</sup>lt;sup>2</sup> 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.