



Designation: ~~D5643-94 (Reapproved 2000)~~^{ε1} Designation: D 5643 – 06

Standard Specification for Coal Tar Roof Cement, Asbestos Free¹

This standard is issued under the fixed designation D 5643; 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—Editorially switched from English dominant to SI dominant.~~

1. Scope

- 1.1 This specification covers coal tar roof cement suitable for trowel application in coal tar roofing and flashing systems.
- 1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.
- 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 limitations prior to use.*

2. Referenced Documents

- 2.1 *ASTM Standards:*²
 - D 4 Test Method for Bitumen Content
 - D 95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
 - D 140 Practice for Sampling Bituminous Materials
 - ~~D 2822 Specification for Asphalt Roof Cement~~² Practice for Sampling Bituminous Materials
 - D 3143 Test Method for Flash Point of Cutback Asphalt with Tag Open-Cup Apparatus
 - D 3409 Test Method for Adhesion of Asphalt-Roof Cement to Damp, Wet, or Underwater Surfaces² Test Method for Adhesion of Asphalt-Roof Cement to Damp, Wet, or Underwater Surfaces
 - D 6511 Test Methods for Solvent Bearing Bituminous Compounds

3. Materials and Manufacture

- 3.1 Coal tar roof cement shall consist of a processed coal tar base, volatile solvents, and mineral stabilizers, excluding asbestos, mixed to a smooth uniform consistency suitable for trowel application.

4. Chemical Composition

- 4.1 The composition of coal tar roof cement shall conform to the requirements prescribed in Table 1.

5. Performance Requirements

- 5.1 *Uniformity*—A thoroughly stirred sample shall show no separation of solvent or settling that cannot be overcome by moderate stirring after standing for 72 h at room temperature in a closed container.
- 5.2 *Workability*—The cement shall be of such a consistency that it will spread readily and permit troweling smooth coatings 1.6 to 3.2 mm ($\frac{1}{16}$ to $\frac{1}{8}$ in.) thick on vertical surfaces.
- 5.3 *Behavior at 60°C (140°F)*—The cement shall show no evidence of blistering, and sag or slide shall be no greater than 6 mm ($\frac{1}{4}$ in.).
- 5.4 *Adhesion to Wet Surfaces*—Minimum average 75 %.
- 5.5 *Flash Point*—38°C (100°F) minimum.

6. Sampling

- 6.1 Sample the material from the original container immediately after stirring to a uniform consistency, in accordance with Practice D 140.

¹ This specification is under the jurisdiction of ASTM Committee ~~D-8 D08~~ on ~~Roofing, Waterproofing, Roofing and Bituminous Materials~~ Waterproofing and is the direct responsibility of Subcommittee ~~D08.05~~ on Solvent-Bearing Bituminous Compounds for Roofing and Waterproofing. Current edition approved Dec. 15, 1994. Published February 1995.

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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* Vol 04.04, volume information, refer to the standard's Document Summary page on the ASTM website.