



Designation: D4022/D4022M – 07(Reapproved 2012)^{e 1}

Standard Specification for Coal Tar Roof Cement, Asbestos Containing¹

This standard is issued under the fixed designation D4022/D4022M; 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.

This standard has been approved for use by agencies of the Department of Defense.

^{e 1} NOTE—Units information was editorially corrected in June 2012.

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 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 limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D4 Test Method for Bitumen Content

D95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation

D140 Practice for Sampling Bituminous Materials

D3143 Test Method for Flash Point of Cutback Asphalt with Tag Open-Cup Apparatus

D3409 Test Method for Adhesion of Asphalt-Roof Cement to Damp, Wet, or Underwater Surfaces

D6511 Test Methods for Solvent Bearing Bituminous Compounds

¹ This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.05 on Solvent-Bearing Bituminous Compounds for Roofing and Waterproofing.

Current edition approved May 1, 2012. Published June 2012. Originally approved in 1981. Last previous edition approved in 2007 as D4022 – 07. DOI: 10.1520/D4022_D4022M-07R12E01.

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. DOI: 10.1520/D4022-07.

3. Materials and Manufacture

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

4. 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 [$1/16$ to $1/8$ in.] thick on vertical surfaces.

5.3 *Behavior at 60°C [140°F]*—The cement shall show no evidence of blistering, and the sag or slide shall be no greater than 6 mm [$1/4$ 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 D140.

6.2 Restir samples to obtain uniformity immediately before withdrawing portions for individual tests.

7. Test Methods

7.1 *Water*—Test Method D95.

7.2 *Nonvolatile Matter*—Determine nonvolatile matter in accordance with Test Methods D6511, Section 7 on Nonvolatile Content.