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Standard Specification for Asphalt Roof Coatings—Asbestos-Free¹

This standard is issued under the fixed designation D4479/D4479M; 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.

^{ε1} NOTE—Units information was editorially corrected in June 2012.

1. Scope

1.1 This specification covers asbestos-free asphalt roof coatings of brushing or spraying consistency.

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 The following precautionary caveat pertains only to the test method portion, Section 8, of this specification: *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

D312 Specification for Asphalt Used in Roofing

D449 Specification for Asphalt Used in Dampproofing and Waterproofing

D946 Specification for Penetration-Graded Asphalt Cement for Use in Pavement Construction

D6511 Test Methods for Solvent Bearing Bituminous Compounds

3. Classification

3.1 *Type I* is made from asphalts characterized as self-healing, adhesive, and ductile, and conforming to the requirements of Specification D312, Type I; Specification D449, Types I or II; or Specification D946.

3.2 *Type II* is made from asphalts characterized by high softening point and relatively low ductility, and conforming to the requirements of Specification D312 Types II or III; or Specification D449, Type III.

4. Materials and Manufacture

4.1 Asphalt roof coatings shall consist of an asphalt base, volatile petroleum solvents, and mineral or other stabilizers, or both, excluding asbestos fiber, mixed to a smooth, uniform consistency suitable for application by squeegee, three-knot brush, paint brush, roller, or by spraying.

5. Composition

5.1 Asphalt roof coatings complying with this specification shall conform to the following composition limits:

	min	max
Water content, %	...	2.5
Nonvolatile content, %	50	...
Mineral and/or other stabilizers	5	20
Bitumen (asphalt), %	40	...

6. Physical Requirements

6.1 *Uniformity*—After a thoroughly stirred sample has stood for 72 h at room temperature $23 \pm 2^\circ\text{C}$ (73.4 [$73.4 \pm 3.6^\circ\text{F}$] 3.6°F)

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.

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