



Designation: D2823 – 05

Standard Specification for Asphalt Roof Coatings, Asbestos-Containing¹

This standard is issued under the fixed designation D2823; 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.

1. Scope

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

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

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

D1079 Terminology Relating to Roofing and Waterproofing

D6511 Test Methods for Solvent Bearing Bituminous Compounds

3. Terminology

3.1 For definitions of terms used in this specification, see Terminology D1079.

4. Classification

4.1 *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.

4.2 *Type II* is made from asphalts characterized by high softening point and relatively low ductility, and conforming to

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.

the requirements of Specification D312 Types II or III; or Specification D449, Type III.

5. Materials and Manufacture

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

6. Composition

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

	min	max	
Water, %	...	1.0	(D6511, Section 10)
Nonvolatile matter, %	50	...	(D6511, Section 7)
Asbestos and other mineral stabilizers, %	5	20	(D6511, Section 18)
Asphalt, %	40	...	(D6511, Section 18)
Mineral matter based on original mass of insoluble residue, %	80	...	(D6511, Section 19)

7. Physical Requirements

7.1 *Uniformity*—After a thoroughly stirred sample has stood for 72 h at room temperature in a closed container, it shall show no separation of solvent or settling that cannot be overcome by moderate stirring.

7.2 *Consistency*—The roof coating shall be of a consistency that will spread readily and permit application by squeegee, brush, roller, or spray at the rate of 1.25 m²/L (50 ft²/gal) on prepared roofing, saturated felt, and metal surfaces at ambient temperatures above 10°C (50°F). Consistency at 25°C (77°F) shall be between 50 and 400 Stormer s/100 revolutions when using 450 gm driving weight.

7.3 *Behavior at 60°C (140°F)*—The roof coating shall show no evidence of blistering, and sag or slide shall be no greater than 6 mm (¼ in.). Staining or absorption of the coating on the reverse side of the prepared roofing test panel shall not exceed 5 % of the coated area.