



# Standard Specification for Asphalt Roof Coatings, Asbestos-Containing<sup>1</sup>

This standard is issued under the fixed designation D 2823; 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:*<sup>2</sup>

- D 312 Specification for Asphalt Used in Roofing
- D 449 Specification for Asphalt Used in Dampproofing and Waterproofing
- D 946 Specification for Penetration-Graded Asphalt Cement for Use in Pavement Construction
- D 1079 Terminology Relating to Roofing, Waterproofing and Bituminous Materials
- D 6511 Test Methods for Solvent Bearing Bituminous Compounds

## 3. Terminology

3.1 For definitions of terms used in this specification, see Terminology D 1079.

## 4. Classification

4.1 *Type I* is made from asphalts characterized as self-healing, adhesive, and ductile, and conforming to the require-

ments of Specification D 312, Type I; Specification D 449, Types I or II; or Specification D 946.

4.2 *Type II* is made from asphalts characterized by high softening point and relatively low ductility, and conforming to the requirements of Specification D 312 Types II or III; or Specification D 449, 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	(D 6511, Section 10)
Nonvolatile matter, %	50	...	(D 6511, Section 7)
Asbestos and other mineral stabilizers, %	5	20	(D 6511, Section 18)
Asphalt, %	40	...	(D 6511, Section 18)
Mineral matter based on original mass of insoluble residue, %	80	...	(D 6511, 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 m<sup>2</sup>/L (50 ft<sup>2</sup>/gal) on prepared roofing, saturated felt, and metal surfaces at ambient temperatures above 10°C (50°F). Consistency at

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<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.

25°C (77°F) shall be between 50 and 400 Stomper 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.

7.4 *Pliability at 0°C (32°F)*—There shall be no cracking or separation of the roof coating from the metal.

## 8. Sampling

8.1 Sample the material from the original containers immediately after stirring to a uniform consistency in accordance with Section 4, Sampling, of Test Methods **D 6511**. Restir samples to ensure uniformity immediately before withdrawing portions for individual tests.

## 9. Test Methods

9.1 Determine composition and physical requirements by using the procedures in Test Methods **D 6511**.

## 10. Precision

10.1 See Section 21, Precision and Bias, of Test Methods **D 6511**.

## 11. Inspection

11.1 Inspection of the material shall be agreed upon by the purchaser and the seller as part of the purchase contract.

## 12. Rejection and Resubmittal

12.1 Failure to conform to any of the requirements prescribed in this specification shall constitute grounds for rejection. In cases of rejection, the seller shall have the right to reinspect and resubmit the lot after removal of those packages not conforming to the specified requirements.

## 13. Packaging and Package Marking

13.1 Asphalt roofing cement shall be suitably packaged to permit acceptance by the carrier and to afford adequate protection from the normal hazards of handling and shipment.

13.2 Each container shall be plainly marked with the name and brand of the manufacturer or supplier, the type of product, the manufacturer's production code or lot number, and wording indicating that the material contains asbestos.

13.3 Each container shall be plainly marked to indicate that the product was manufactured to meet ASTM D 2823.

## 14. Keywords

14.1 asbestos; asphalt; fibered; roof coating

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