



Standard Specification for Asphalt Roof Cement¹

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

^{ε1} NOTE—Section 13 was added editorially in April 1997.

1. Scope

1.1 This specification covers asphalt roof cement used for trowel application to roofings and flashings.

1.2 The following safety hazards caveat pertains only to the test methods described in 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:

D 4 Test Method for Bitumen Content²

D 95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation³

D 140 Practice for Sampling Bituminous Materials⁴

D 312 Specification for Asphalt Used in Roofing²

D 449 Specification for Asphalt Used in Dampproofing and Waterproofing²

D 946 Specification for Penetration-Graded Asphalt Cement for Use in Pavement Construction⁴

D 1079 Terminology Relating to Roofing, Waterproofing and Bituminous Materials²

D 3409 Test Method for Adhesion of Asphalt Roof Cement to Damp, Wet, or Underwater Surfaces²

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.

4.1.1 Class I is used for application to essentially dry surfaces.

4.1.2 Class II is used for application to damp, wet, or underwater surfaces.

4.2 *Type II* is made from asphalt 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.

4.2.1 Class I is used for application to essentially dry surfaces.

4.2.2 Class II is used for application to damp, wet, or underwater surfaces.

5. Materials and Manufacture

5.1 Asphalt roof cement shall consist of an asphalt base, volatile petroleum solvents, and mineral stabilizers including asbestos fiber, mixed to a smooth, uniform consistency suitable for trowel application.

6. Composition

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

	min	max
Water, %	...	1.0
Nonvolatile matter, %	70	...
Asbestos and other mineral stabilizers, %	15	45
Asphalt, %	30	60
Mineral matter based on original mass of insoluble residue, %	80	...

7. Physical Requirements

7.1 *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.

7.2 *Workability*—The cement shall be of a consistency that will spread readily and permit troweling smooth coatings, $\frac{1}{16}$ to $\frac{1}{4}$ in. (2 to 6 mm) thick, on prepared roofing, saturated felt, and metal surfaces at ambient temperatures above 50°F (10°C).

7.3 *Behavior at 140°F (60°C)*—The cement shall show no evidence of blistering, and sag or slide shall be no greater than 6 mm ($\frac{1}{4}$ in.).

¹ This specification is under the jurisdiction of ASTM Committee D-8 on Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of Subcommittee D08.05 on Solvent-Bearing Bituminous Compounds for Roofing and Waterproofing.

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² Annual Book of ASTM Standards, Vol 04.04.

³ Annual Book of ASTM Standards, Vol 05.01.

⁴ Annual Book of ASTM Standards, Vol 04.03.