



Designation: D 3019 – 94 (Reapproved 2000)^{e1}

Standard Specification for Lap Cement Used with Asphalt Roll Roofing, Non Fibered, Asbestos Fibered, and Non Asbestos Fibered¹

This standard is issued under the fixed designation D 3019; 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.

^{e1} NOTE—Editorially switched from English dominant to SI dominant.

1. Scope

1.1 This specification covers lap cement consisting of asphalt dissolved in a volatile petroleum solvent with or without mineral or other stabilizers, or both, for use with roll roofing.

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 The following precautionary caveat applies only to the test method portion, Section 5, 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:*

D 4 Test Method for Bitumen Content²

D 36 Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)²

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

D 140 Practice for Sampling Bituminous Materials⁴

D 146 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing²

D 249 Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules; Wide Selvage²

D 402 Test Method for Distillation of Cut-Back Asphaltic (Bituminous) Products⁴

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 Prepared Roofings, Shingles, and Siding Materials.

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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.

3. Classification

3.1 *Type I*—Brushing consistency lap cement intended for use in the exposed-nailing method of roll roofing application. Type I lap cement contains no mineral or other stabilizers.

3.1.1 *Grade 1*—Made with an air-blown asphalt.

3.1.2 *Grade 2*—Made with a vacuum-reduced or steam-refined asphalt.

3.2 *Type II*—Heavy brushing or light troweling consistency lap cement intended for use in the concealed-nailing method of roll roofing application. Type II lap cement contains a quantity of short-fibered asbestos.

3.3 *Type III*—Heavy brushing or light troweling consistency lap cement intended for use in the concealed-nailing method of roll roofing application. Type III lap cement contains a quantity of mineral or other stabilizers, or both, but contains no asbestos.

4. Physical Requirements

4.1 The material shall conform to the requirements prescribed in Table 1.

5. Sampling and Test Methods

5.1 *Sampling*—Practice D 140. Combine individual samples after thorough stirring, and restir the combined sample immediately before taking out portions for individual tests.

5.2 *Water*—Test Method D 95.

5.3 *Distillation*—Test Method D 402.

5.4 *Softening Point*—Test Method D 36.

5.5 *Solubility in Trichloroethylene*—Test Method D 4, Procedure No. 1, but use trichloroethylene in place of carbon disulfide.

5.6 *Strength of Lap:*

5.6.1 *Scope*—This method covers the determination of the tensile shear strength of a 100-mm (4 in.) cemented lap of roll roofing under closely controlled laboratory conditions.

5.6.2 *Significance*—The lap strength is of importance only for Type II and Type III cement used in the concealed-nailing method of roll roofing application.