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Standard Specification for Asphalt Used in Canal, Ditch, and Pond Lining¹

This standard is issued under the fixed designation D2521; 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.

1. Scope

1.1 This specification covers an oxidized petroleum asphalt, which, when applied in a sufficient thickness over a suitable subgrade and covered with a suitable cover material, will provide a satisfactory waterproof membrane for use as a canal, ditch, and pond lining.

1.2 The values stated in SI units are to be regarded as standard. The values given in parentheses are mathematical conversions to inch-pound units that are provided for information only and are not considered standard.

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
- D5 Test Method for Penetration of Bituminous Materials
- D6 Test Method for Loss on Heating of Oil and Asphaltic Compounds
- D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester
 - D113 Test Method for Ductility of Bituminous Materials
 - D140 Practice for Sampling Bituminous Materials
 - D2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene
 - D2398 Test Method for Softening Point of Bitumen in

Ethylene Glycol (Ring-and-Ball) (Withdrawn 1984)³

3. Physical Requirements

3.1 The asphalt shall not foam when heated to 205° C (400°F), and shall conform to the requirements prescribed in Table 1.

3.2 At the purchaser's option, phosphorus pentoxide (P_2O_5) may be specified as a catalyst or blowing aid in the preparation of the membrane asphalt.

4. Sampling and Test Methods

4.1 Sample the material and determine the properties enumerated in this specification in accordance with the following methods:

- 4.1.1 Sampling—Practice D140.
- 4.1.2 Softening Point—Test Method D2398.
- 4.1.3 Penetration—Test Method D5.
- 4.1.4 Ductility—Test Method D113.
- 4.1.5 Flash Point—Test Method D92.
- 4.1.6 Solubility in Trichloroethylene —Test Method D2042.
- 4.1.7 Loss on Heating-Test Method D6.
- 5. Inspection

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

6. Rejection and Resubmittal

6.1 Failure to conform to any of the requirements prescribed in this specification shall constitute grounds for rejection. In case of rejection, the seller shall have the right to reinspect the rejected material and resubmit the lot after removal of the packages not conforming to the requirements.

7. Keywords

7.1 bituminous materials; canal lining; ditch lining; membrane asphalt

¹ This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.03 on Surfacing and Bituminous Materials for Membrane Waterproofing and Built-up Roofing.

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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.

³ The last approved version of this historical standard is referenced on www.astm.org.