



Designation: D2728 – 98 (Reapproved 2019)

Standard Practice for Paving Uses and Application Temperatures for Road Tars¹

This standard is issued under the fixed designation D2728; 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 practice covers the selection and application temperatures of road tar grades in the construction and maintenance of pavements.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D8 Terminology Relating to Materials for Roads and Pavements

3. Terminology

3.1 *Definitions:* The definitions of terms not included in Terminology **D8** are listed below.

3.1.1 *dust palliative*—a light application of a low-viscosity bituminous material for the express purpose of laying and bonding dust or preventing a dust nuisance.

3.1.2 *plant mix*—a mixture of bituminous material and mineral aggregate prepared in a central bituminous mixing plant, then spread and compacted at the job site. Plant mixes include:

3.1.2.1 *cold-lay tar concrete*—a plant mix containing a medium-viscosity grade of tar and a less densely graded aggregate designed to be laid either shortly after mixing or when the mixture is at or near ambient temperature.

3.1.2.2 *hot-lay tar concrete*—a plant mix containing a high-viscosity grade of tar and a densely graded mineral aggregate, designed to be laid at or near the elevated temperature of mixing.

3.1.2.3 *sand mix*—a plant mix containing sand aggregate and a high-viscosity grade of tar designed to be laid immediately.

3.1.2.4 *soil mix*—a plant mix containing soil aggregate and a low-to-medium viscosity grade of bituminous material, usually designed to be stockpiled, then laid following a period of seasoning.

3.1.3 *patch mix*—a mixture of bituminous material and mineral aggregate for patching holes, depressions, and distressed areas in existing pavements. These mixes are suitable for use in relatively small areas, applied at ambient temperature, using hand-laying and hand-compaction techniques. These mixes may be designed for immediate use or for stockpiling prior to use.

3.1.4 *sand aggregate*—non-plastic mineral aggregate, essentially all passing the 4.75-mm sieve, and containing no more than a minor percentage passing the 75- μ m sieve.

4. Significance and Use

4.1 This practice provides information on the recommended uses and application temperatures for the various grades of road tar used in the construction and maintenance of pavements.

5. Recommended Uses

5.1 The recommendations shown in **Table 1** are for use only as a guide when using tar for pavement construction and maintenance. Several grades of tar may be listed in the table for the same general construction procedure. Selection of a particular grade will depend upon local practice, equipment availability, traffic, and environmental conditions applicable to the specific project being considered.

6. Recommended Application Temperatures

6.1 The temperature ranges listed in **Table 1** for the several road tar grades show the minimum and maximum temperatures that will provide proper viscosity for application. In general, the lower application temperatures may be used when higher temperatures of aggregate and pavement surfaces prevail.

¹ This practice is under the jurisdiction of ASTM Committee **D04** on Road and Paving Materials and is the direct responsibility of Subcommittee **D04.43** on Specifications and Test for Tar and Tar Products.

Current edition approved May 1, 2019. Published May 2019. Originally approved in 1968. Last previous edition approved in 2014 as D2728 – 98 (2014). DOI: 10.1520/D2728-98R19.

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.