
Standard Specification for Boiled Linseed Oil Mixture for Treatment of Portland Cement Concrete

AASHTO Designation: M 233-86 (2023)

Technically Revised: 1986

Reviewed but Not Updated: 2023

Technical Subcommittee: 4c, Markings and Coatings



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This specification covers boiled linseed oil-petroleum spirits mixture to be applied to hardened portland cement concrete as a protection against damage by deicing chemicals.
- 1.2. The values stated in SI units are to be regarded as the standard.
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2. REFERENCED DOCUMENTS

- 2.1. *ASTM Standards:*
- < D56, Standard Test Method for Flash Point by Tag Closed Cup Tester
 - < D235, Standard Specification for Mineral Spirits (Petroleum Spirits) (Hydrocarbon Dry Cleaning Solvent)
 - < D260, Standard Specification for Boiled Linseed Oil (withdrawn 2007; no replacement)
 - < D1544, Standard Test Method for Color of Transparent Liquids (Gardner Color Scale)
 - < D1639, Standard Test Method for Acid Value of Organic Coating Materials (withdrawn 2005; no replacement)
 - < D1640/D1640M, Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings
 - < D1644, Standard Test Methods for Nonvolatile Content of Varnishes
 - < D1959, Standard Test Method for Iodine Value of Drying Oils and Fatty Acids (withdrawn 2006; no replacement)
 - < D1962, Standard Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids (withdrawn 2004; no replacement)
 - < D1963, Standard Test Method for Specific Gravity of Drying Oils, Varnishes, Resins, and Related Materials at 25/25°C (withdrawn 2004; no replacement)
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3. PROPERTIES

- 3.1. The compound shall consist of a homogeneous mixture of 50 percent boiled linseed oil and 50 percent petroleum spirits by volume.
- 3.2. The boiled linseed oil shall conform to the requirements of ASTM D260, for Boiled Linseed Oil Type I or Type II.
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