



Designation: C937 – 23

Standard Specification for Grout Fluidifier for Preplaced-Aggregate Concrete¹

This standard is issued under the fixed designation C937; 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.

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

1. Scope*

1.1 This specification covers fluidifier for grout used for preplaced-aggregate (PA) concrete.

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 The text of this standard refers to notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

1.4 The following precautionary caveat pertains only to the test method portion, Section 8, of this standard: *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use. (Warning—Fresh hydraulic cementitious mixtures are caustic and may cause chemical burns to exposed skin and tissue upon prolonged exposure.²)*

1.5 *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:*³

C33/C33M Specification for Concrete Aggregates

C125 Terminology Relating to Concrete and Concrete Aggregates

¹ This specification is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C09.41 on Hydraulic Cement Grouts.

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² See Section on Safety Precautions, Manual of Aggregate and Concrete Testing, Annual Book of ASTM Standards, Vol. 04.02.

³ 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.

C150/C150M Specification for Portland Cement

C219 Terminology Relating to Hydraulic and Other Inorganic Cements

C618 Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

C637 Specification for Aggregates for Radiation-Shielding Concrete

C938 Practice for Proportioning Grout Mixtures for Preplaced-Aggregate Concrete

C939/C939M Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)

C940 Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory

C941 Test Method for Water Retentivity of Grout Mixtures for Preplaced-Aggregate Concrete in the Laboratory

C942/C942M Test Method for Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory

C953 Test Method for Time of Setting of Grouts for Preplaced-Aggregate Concrete in the Laboratory

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions of terms used in this test method, refer to Terminologies C125 and C219.

4. Ordering Information

4.1 The purchaser shall specify the material desired as “grout fluidifier for preplaced-aggregate concrete.” The material shall meet the requirements of this specification.

5. Materials

5.1 Grout ingredients shall conform to the following requirements:

5.1.1 Portland cement shall meet the requirements of Specification C150/C150M for the type to be used.

5.1.2 Pozzolan shall meet the requirements of Specification C618.

5.1.3 Fine aggregate shall meet the requirements of Specification C33/C33M except that grading shall conform to Specification C637, Table number 2, Grading 1 for Fine Aggregate.

*A Summary of Changes section appears at the end of this standard