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Standard Practice for Sampling Materials for Shotcrete¹

This standard is issued under the fixed designation C1385/C1385M; 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.

ε¹Nore—The title was changed to a dual designation editorially to reflect the existing measurements in the standard in September 2004.

1. Scope

- 1.1 This practice covers procedures for obtaining representative samples of materials to be shotcreted. The practice covers sampling from stationary and truck mixers, volumetric and continuous mixing equipment, and bag and bulk delivery.
- 1.2 The values stated in either inch-pound or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with this practice.
- 1.3 This standard does not purport to address 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. Significance and Use

2.1This practice is used to obtain representative samples of materials delivered to the shotcrete machine. These samples are used to perform tests to determine compliance with the specifications under which the material is furnished. Referenced Documents

2.1 ASTM Standards:²

C125 Terminology Relating to Concrete and Concrete Aggregates

3. Terminology

3.1 For definitions of terms used in this standard, refer to Terminology C125.

4. Significance and Use

4.1 This practice is used to obtain representative samples of materials delivered to the shotcrete machine. These samples are used to perform tests to determine compliance with the specifications under which the material is furnished.

5. Procedure

- 35.1 Composite samples are required by this practice, unless specifically made exempt by procedures governing the tests to be performed, such as tests to determine uniformity of consistency and mixer efficiency. Procedures used to select the specific test batches are not described in this practice, but it is recommended that random sampling be used to determine overall specification compliance.
- 3.2The 5.2 The size of an individual sample shall be a minimum of 25 lb [12 kg], 12 kg [25 lb], the size of the composite sample shall be a minimum of 75 lb [35 kg]. The composite sample shall be large enough to perform the required tests.
- 35.3 Sampling shall be performed as the shotcrete material is delivered to the shotcrete machine. The procedures used in sampling shall include the use of every precaution that will assist in obtaining samples that are truly representative of the nature and condition of the material sampled as follows:
- 3.3.1 Sampling Dry Process Shotcrete Materials—Sample the material by collecting two or more portions taken at regularly spaced intervals during discharge of the middle of the batch or two or more random portions from the discharge of continuous mixers. Combine the portions into one sample for testing purposes. Do not obtain portions of the composite sample

¹ This practice is under the jurisdiction of ASTM Committee C09 on Concrete and Concrete Aggregates and is the direct responsibility of Subcommittee C09.46 on Shotcrete.

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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.