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SI

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Guide for the Evaluation of Shotcrete

Reported by ACI Committee 506

ACI 506.4R-19



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Guide for the Evaluation of Shotcrete

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American Concrete Institute
38800 Country Club Drive
Farmington Hills, MI 48331
Phone: +1.248.848.3700
Fax: +1.248.848.3701

www.concrete.org

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*Deceased.

This document provides information on the evaluation of both dry-mix and wet-mix shotcrete. It is assumed throughout the document that shotcrete is a method of placing concrete. However, for the sake of readability, the word “shotcrete” is often used either to identify the shotcrete process (method) or the shotcrete mixture (product) in the present document.

Evaluation of in-place shotcrete requires experience, education, and engineering judgment. This document serves as a guide for engineers, inspectors, contractors, and others involved in accepting, rejecting, or evaluating in-place dry- or wet-mix shotcrete.

Keywords: absorption and voids test; beam test; bond pullout test; density; drilled core test; end-beam tester; in-place density; mockup panel; nailing guns method; needle penetrometer; nondestructive testing; penetrating probe method; round panel test; soil penetrometer.

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