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Testing methods for pervious concrete —

Part 3: Resistance of surface degradation

Méthodes d'essai pour ciments perméables —

Partie 3: Résistance de la dégradation de surface

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Foreword

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This document was prepared by Technical Committee ISO/TC 71, *Concrete, reinforced concrete and pre-stressed concrete*, Subcommittee SC 1, *Test methods for concrete*.

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Testing methods for pervious concrete —

Part 3:
Resistance of surface degradation

1 Scope

This document specifies a procedure for testing the resistance of surface degradation of pervious concrete specimens in the laboratory. This document also specifies procedures for measuring the mass loss of specimens subjected to combined action of impact and abrasion in a rotating steel drum.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

ISO 17785-2, *Testing methods for pervious concrete — Part 2: Density and void content*

ASTM C131/C131M, *Test Method for Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine*

ASTM D6926, *Practice for Preparation of Bituminous Specimens Using Marshall Apparatus*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
pervious concrete
concrete which has interconnected voids that allow for water flow through them

3.2
design density
mass of a unit volume of pervious concrete based on the theoretical mixture proportions and void content

4 Principle

4.1 Method

This test method consists of casting cylindrical specimens and subjecting the cured specimens to a combination of actions by impact and abrasion in a rotating steel drum.

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