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STN	**Cement** **Časť 6: Cement s recyklovanými stavebnými materiálmi**	**STN** **EN 197-6** 72 2101

Cement - Part 6: Cement with recycled building materials

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Cement - Part 6: Cement with recycled building materials

Ciment - Partie 6 : Ciment à base de matériaux de construction recyclés

Zement - Teil 6: Zement mit rezyklierten Baustoffen

This European Standard was approved by CEN on 24 April 2023.

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Ref. No. EN 197-6:2023 E

Contents

Page

European foreword

This document (EN 197-6:2023) has been prepared by Technical Committee CEN/TC 51 “Cement and building lime”, the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2023, and conflicting national standards shall be withdrawn at the latest by December 2023.

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Introduction

The purpose of this document is to specify the requirements for cement with recycled concrete fines.

Different cements have different properties and performance. The performance tests available at the time of publication of this document (i.e. for the determination of setting time, strength, soundness and heat of hydration) have been included in this document. In addition, work is being carried out by CEN/TC 51 to identify any additional tests which are needed to specify further performance characteristics of cement. Until further performance tests are available, it is necessary that the choice of cement, especially the type and/or strength class in relation to the requirements for durability depending on exposure class and type of construction in which it is incorporated, follows the appropriate standards and/or regulations for concrete, mortar, grout, etc. valid in the place of use.

The fitness of cement with recycled concrete fines for the intended use to produce structural concrete (reinforced or not) has been experimentally assessed by testing programs, the results of which have been included in a dossier [1] approved by CEN/TC 51.

The cement types and strength classes defined in this document allow the specifier and/or the user to contribute to objectives of sustainability for cement-based constructions and of circular economy and to minimize the use of natural resources in accordance with local conditions of production.

1 Scope

This document specifies cement with recycled concrete fines whose intended use is the preparation of concrete, mortar, grout, etc.

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.

EN 196-2, *Method of testing cement — Part 2: Chemical analysis of cement*

EN 196-6, *Methods of testing cement — Part 6: Determination of fineness*

EN 196-7:2007, *Methods of testing cement — Part 7: Methods of taking and preparing samples of cement*

EN 197-1:2011, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*

EN 197-2:2020, *Cement — Part 2: Assessment and verification of constancy of performance*

EN 206:2013+A2:2021, *Concrete — Specification, performance, production and conformity*

EN 933-9, *Tests for geometrical properties of aggregates — Part 9: Assessment of fines — Methylene blue test*

EN 13639, *Determination of total organic carbon in limestone*