ICS 13.060.20, 67.250 SLOVENSKÁ TECHNICKÁ NORMA August 2025

| STN | **Vplyv cementových výrobkov na pitnú vodu<br>Skúšobné metódy<br>Časť 4: Migrácia látok z cementových materiálov aplikovaných na stavenisku a pridružených necementových výrobkov/materiálov** | **STN<br>EN 14944-4**<br><br>75 8710 |
|---|---|---|

Influence of cement based products on water intended for human consumption - Test methods - Part 4: Migration of substances from site-applied cement based materials and associated non-cement based products/materials

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/25

Obsahuje: EN 14944-4:2025

**140805**

# EUROPEAN STANDARD
# NORME EUROPÉENNE
# EUROPÄISCHE NORM

**EN 14944-4**

May 2025

ICS 13.060.20; 67.250

English Version

# Influence of cement based products on water intended for human consumption - Test methods - Part 4: Migration of substances from site-applied cement based materials and associated non-cement based products/materials

Influence des produits à base de ciment sur l'eau destinée à la consommation humaine - Méthodes d'essai - Partie 4 : Migration de substances à partir de matériaux à base de ciment appliqués sur site et de produits/matériaux associés exempts de ciment

Einfluss zementgebundener Produkte auf Wasser für den menschlichen Gebrauch - Prüfverfahren - Teil 4: Migration von Substanzen aus bauseits angewendeten zementgebundenen Materialien und zugehörigen nicht zementgebundenen Produkten/Materialien

This European Standard was approved by CEN on 7 April 2025.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**



Ref. No. EN 14944-4:2025 E

# Contents

Page

# European foreword

This document (EN 14944-4:2025) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document describes a test method to determine the migration of substances in water intended for human consumption.

This document will result in one of a series of standards that support standards for the approval of products and materials in contact with water intended for human consumption.

This document is part of a series dealing with the influence of cement based and associated non-cement based products/materials on water intended for human consumption, including:

— Part 1: Influence of factory-made cement based products on organoleptic parameters and migration of organic substances (TOC).

— Part 2: Influence of site-applied cement based materials and associated non-cement based products/materials on organoleptic parameters and migration of organic substances (TOC).

— Part 3: Migration of substances from factory made cement based products.

— Part 4: Migration of substances from site-applied cement based materials and associated non-cement based products/materials.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

# 1 Scope

This document specifies a method to determine the migration of substances from hardened cement based site-applied or site-formed materials (including pre-packaged mortars) into test waters after contact with the products. It also covers determination of migration from individual constituents of cement based products and materials (see Annexes A and B) and from associated non-cement based products for approval purposes (see Annex C).

Site-applied or site-formed cement based materials which cannot be cast as cubes or prisms e.g. some spray applied systems, fall in the scope of EN 14944–3 and not under this standard.

This document is applicable to site-applied or site-formed cement based materials intended to be used for the transport and storage of water intended for human consumption, including raw water used for the production of drinking water. It is also applicable to individual constituents of cement based products/materials and to associated non-cement based products/materials.

NOTE Tests with the specified test water will not necessarily be representative of materials used in different kinds of waters and especially very soft waters.

# 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 196-1, *Methods of testing cement — Part 1: Determination of strength*

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

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

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*

EN 12390-1, *Testing hardened concrete — Part 1: Shape, dimensions and other requirements for specimens and moulds*

EN 14944-3, *Influence of cementitious products on water intended for human consumption — Test methods — Part 3: Migration of substances from factory-made cementititous products*

EN ISO 7393-1, *Water quality — Determination of free chlorine and total chlorine — Part 1: Titrimetric method using N, N-diethyl-1,4-phenylenediamine (ISO 7393-1)*

EN ISO 7393-2, *Water quality — Determination of free chlorine and total chlorine — Part 2: Colorimetric method using N,N-dialkyl-1,4-phenylenediamine, for routine control purposes (ISO 7393-2)*

EN ISO 10523, *Water quality — Determination of pH (ISO 10523)*