

norma española

UNE-EN 14038-1:2016

Idioma: Inglés

TÍTULO

Realcalinización electroquímica y tratamientos de extracción de cloruros para el hormigón armado. Parte 1: Realcalinización. (Ratificada por AENOR en junio de 2016.)

TÍTULO INGLÉS

Electrochemical realkalization and chloride extraction treatments for reinforced concrete - Part 1: Realkalization (Endorsed by AENOR in June of 2016.)

TÍTULO FRANCÉS

Ré-alcalinisation électrochimique et traitements d'extraction des chlorures applicables au béton armé - Partie 1: Réalcalinisation (Entérinée par l'AENOR en juin 2016.)

OBSERVACIONES

En cumplimiento del punto 11.2.6.4 de las Reglas Internas de CEN/CENELEC Parte 2, se ha otorgado el rango de documento normativo español UNE al documento normativo europeo EN 14038-1:2016 (Fecha de disponibilidad 2016-03-30)

Este documento está disponible en los idiomas oficiales de CEN/CENELEC/ETSI.

Este anuncio causará efecto a partir del primer día del mes siguiente al de su publicación en la revista AENOR.

La correspondiente versión oficial de este documento se encuentra disponible en AENOR (C/ Génova 6 28004 MADRID, www.aenor.es)

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14038-1

March 2016

ICS 91.080.40

Supersedes CEN/TS 14038-1:2004

English Version

**Electrochemical realkalization and chloride extraction
treatments for reinforced concrete - Part 1: Realkalization**

Réalcalinisation électrochimique et traitements
d'extraction des chlorures applicables au béton armé -
Partie 1: Réalcalinisation

Elektrochemische Realkalisierung und
Chloridextraktionsbehandlungen für Stahlbeton - Teil
1: Realkalisierung

This European Standard was approved by CEN on 15 January 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword.....	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 General.....	7
4.1 Quality management systems.....	7
4.2 Personnel	7
5 Principle	7
6 Assessment and repair of the structure.....	8
6.1 General.....	8
6.2 Review of records.....	8
6.3 Inspection	8
6.4 Carbonation depth measurement.....	8
6.4.1 General.....	8
6.4.2 Determination of chloride content.....	8
6.5 Concrete cover thickness and reinforcement location measurements.....	9
6.6 Alkali aggregate reaction	9
6.7 Reinforcement continuity and size.....	9
6.8 Repair	9
6.8.1 General.....	9
6.8.2 Concrete removal	9
6.8.3 Reinforcement preparation	9
7 Materials and apparatus.....	10
7.1 Calibration of instrumentation	10
7.2 Anode system.....	10
7.2.1 General.....	10
7.2.2 Anode	10
7.2.3 Anode zone	10
7.2.4 Alkaline electrolyte solution.....	10
7.3 Electric cables.....	10
7.4 Power supply	11
8 Installation procedures	11
8.1 Electrical continuity of reinforcement	11
8.2 Performance monitoring.....	11
8.3 Installation of anode system	11
8.4 Protection of electrolyte solution	12
8.5 Electrical installation.....	12
8.6 Preliminary testing and documentation	12
9 Commissioning, operation and termination of treatment	12
9.1 Visual inspection	12