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Standards

Standard Recommendation
S.R. CEN/TS 14038-2:2011

Electrochemical re-alkalization and chloride extraction treatments for reinforced concrete - Part 2: Chloride extraction

S.R. CEN/TS 14038-2:2011

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document replaces:

This document is based on:
CEN/TS 14038-2:2011

Published:
17 February, 2011

This document was published under the authority of the NSAI and comes into effect on:
17 February, 2011

ICS number:
91.100.30

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ICS 91.100.30

English Version

Electrochemical re-alkalization and chloride extraction treatments for rein-forced concrete - Part 2: Chloride extraction

Traitements électrochimiques de réalcalinisation et d'extraction de chlorures applicables au béton armé - Partie 2: Extraction de chlorures

Elektrochemische Realkalisierung und Chloridextraktionsbehandlungen für Stahlbeton - Teil 2: Chloridextraktion

This Technical Specification (CEN/TS) was approved by CEN on 15 May 2010 for provisional application.

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Foreword

This document (CEN/TS 14038-2:2011) has been prepared by Technical Committee CEN/TC 219 “Cathodic protection”, the secretariat of which is held by BSI.

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Introduction

The purpose of chloride extraction is to rehabilitate a reinforced concrete part from corrosion activity and to provide long term corrosion protection of steel reinforcement in concrete which has been affected by chloride and to re-establish self protection ability. The duration of treatment is from several weeks up to as much as several months, depending on the amount of accumulated chloride, the permeability of the concrete, the layout of the reinforcement and other factors. The decision to terminate the application should be made according to the specific requirements detailed in this technical specification.

There are other electrochemical procedures that can be used to provide corrosion protection of steel in concrete structures. These include cathodic protection and re-alkalisation. There is a European standard for cathodic protection of steel in concrete (EN 12696) and a European Technical Specification for the re-alkalisation of carbonated concrete (TS 14038-1).

It has been assumed in the drafting of this Technical Specification that the execution of its provisions will be entrusted to appropriately qualified and competent people, for whose use it has been prepared.

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