



BSI Standards Publication

Electrochemical realkalization and chloride extraction treatments for reinforced concrete

Part 1: Realkalization

National foreword

This British Standard is the UK implementation of EN 14038-1:2016. It supersedes DD CEN/TS 14038-1:2004, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/603, Cathodic protection.

A list of organizations represented on this committee can be obtained on request to its committee manager.

The UK committee advises users of its concerns that the standard is insufficiently rigorous in respect of the:

- requirements to uniformly deliver charge to all areas being treated
- assessment of adequacy of charge delivered to all areas treated
- control of process parameters during application of the technique
- clarity with which the criteria of adequate treatment are detailed

Further commentary from the UK committee on the application of this standard can be found in National Annex NA.

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English Version

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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

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European foreword

This document (EN 14038-1:2016) has been prepared by Technical Committee CEN/TC 219 “Cathodic protection”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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Introduction

The purpose of realkalization is to provide long-term corrosion protection of steel reinforcement in concrete, which has become carbonated.

There are other electrochemical procedures, which can be used to provide corrosion protection of steel in concrete structures. These include cathodic protection and chloride extraction. There are a European Standard for cathodic protection of steel in concrete (EN ISO 12696) and a Technical Specification for electrochemical chloride extraction (CEN/TS 14038-2).

The execution of the provisions of this standard should be carried out by appropriately qualified and competent people, for whose use it has been prepared.