

## STANDARDS OFFICER'S REPORT No 4 – July 2010

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By Arthur Austin ([Arthur.Austin@alsglobal.com](mailto:Arthur.Austin@alsglobal.com))

Welcome to the fourth corrosion related standards report for 2010.

As previously, I have used SAI Global at <http://www.saiglobal.com/online/> to search for standards, amendments or drafts for AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI and standards and amendments for ISO & IEC published from 21 May 2010 to 21 July 2010, using the key words and key word groups:

- 'durability'.
- 'corrosion' or 'corrosivity' or 'corrosive'; but not 'anodizing' or 'anodize(d)'.
- 'paint' or 'coating'; but not 'anodizing' or 'anodize(d)'.
- 'galvanize' or 'galvanized' or galvanizing'.
- 'electrochemical' or 'electrolysis' or 'electroplated'.
- 'cathode' or 'cathodic'.
- 'anode' or 'anodic'.
- 'corrosion' and 'concrete' or 'concrete' and 'coatings'.

In addition to the above normal search procedure, for this issue, I have searched for “concrete corrosion” through SAIGLOBAL Publications at <https://infostore.saiglobal.com/store> this resulted in 141 citations from the following.

	<a href="#">Polish Committee for Standardization</a>	(16)
	<a href="#">Italian Standards</a>	(10)
	<a href="#">American Society for Testing and Materials</a>	(9)
	<a href="#">Asociacion Espanola de Normalizacion</a>	(9)
	<a href="#">Association Francaise de Normalisation</a>	(8)
	<a href="#">Belgian Standards</a>	(7)
	<a href="#">British Standards Institution</a>	(7)
	<a href="#">Comite Europeen de Normalisation</a>	(7)
	<a href="#">German Institute for Standardisation (Deutsches Institut für Normung)</a>	(7)
	<a href="#">National Standards Authority of Ireland</a>	(7)
	<a href="#">Nederlands Normalisatie Instituut</a>	(7)
	<a href="#">Norwegian Standards (Norges Standardiseringsforbund)</a>	(7)
	<a href="#">Osterreichisches Normungsinstitut</a>	(7)
	<a href="#">Standardiserings-Kommissionen I Sverige</a>	(7)
	<a href="#">Swiss Standards</a>	(7)
	<a href="#">National Association of Corrosion Engineers</a>	(5)
	<a href="#">Interstandard (Russia)</a>	(4)
	<a href="#">American Concrete Institute</a>	(3)
	<a href="#">American Association of State Highway and Transportation Officials</a>	(1)
	<a href="#">Austroads</a>	(1)
	<a href="#">BRANZ</a>	(1)
	<a href="#">Bureau of Indian Standard</a>	(1)
	<a href="#">Japanese Standards Association</a>	(1)
	<a href="#">The Society for Protective Coatings</a>	(1)
	<a href="#">Wirtschafts und Verlagsgesellschaft Gas und Wasser</a>	(1)

A selection of these can be seen under heading “**Results for “concrete corrosion” through SAIGLOBAL Publications at <https://infostore.saiglobal.com/store> on 21 July 2010.**”

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**Summary**

1. Across all SAIGLOBAL online and Infostore Publications there was a total of 158 listings with 17 new standards, Drafts and Amendments, found issued from 21 May 2010 to 21 July 2010.
2. There were no Standards, Drafts or Amendments issued for AS, AS/NZS from 21 May 2010 to 21 July 2010.

Next Report, as well as the newly published standards I will carry out a SAIGLOBAL online search and an SAIGLOBAL Infostore publications search for the key word “electrolysis”.

See the attached list for details.

Regards

A handwritten signature in blue ink, appearing to read 'A. J. Austin', is positioned above the typed name.

Arthur Austin  
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## **STANDARDS OFFICER'S REPORT No 4 – July 2010**

There were 141 results for “concrete corrosion” through SAIGLOBAL Publications at <https://infostore.saiglobal.com/store> on 21 July 2010. Some selected publications are listed below.

The two Australian ones were:

BRANZ Bulletin 464 BRANZ Preventing Corrosion of Reinforcing Steel in Concrete

Austrroads publication; AP-T06/00 Monitoring of Steel Corrosion in Concrete

Others included:

American Concrete Institute – 3 publications:

ACI 222.3R:2003 Design And Construction Practices To Mitigate Corrosion Of Reinforcement In Concrete Structures

ACI 222R:2001 Protection Of Metals In Concrete Against Corrosion

ACI C 25:1993 Concrete Durability: Corrosion Protection

ASTM – 9 publications

ASTM STP1065-90 Corrosion Rates Of Steel In Concrete

ASTM STP1276-96 Techniques To Assess The Corrosion Activity Of Steel Reinforced Concrete Structures

ASTM STP629-77 Chloride Corrosion Of Steel In Concrete

ASTM STP713-80 Corrosion Of Reinforcing Steel In Concrete

ASTM STP818-83 Corrosion Of Metals In Association With Concrete

ASTM STP906-86 Corrosion Effect Of Stray Currents And The Techniques For Evaluating Corrosion Of Rebars In Concrete

ASTM C1582/C1582M-04 Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

ASTM G109-07 Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments  
Click for product information...

ASTM G180-07 Standard Test Method for Initial Screening of Corrosion Inhibiting Admixtures for Steel in Concrete

NACE – 5 publications

NACE SP 01 87:2008 Design Considerations For Corrosion Control Of Reinforcing Steel In Concrete

NACE SP 03 08:2008 Inspection Methods For Corrosion Evaluation Of Conventionally Reinforced Concrete Structures

NACE 05107:2007 Report On Corrosion Probes In Soil Or Concrete

NACE SP 03 90:2009 Maintenance And Rehabilitation Considerations For Corrosion Control Of Atmospherically Exposed Existing Steel-reinforced Concrete Structures

NACE SP 01 00:2008 Cathodic Protection To Control External Corrosion Of Concrete Pressure Pipelines And Mortar-coated Steel Pipelines For Water Or Waste Water Service

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### **STANDARDS FOR AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI AND STANDARDS AND AMENDMENTS FOR ISO & IEC PUBLISHED from 22 March 2010 to 21 May 2010 for:**

Key word search on 'durability' – 5 citations none from AS/NZS

10/30218362 DC BS EN 16122. Non-domestic storage furniture. Test methods for the determination of strength, durability and stability

10/30227092 DC BS EN 16121. Non-domestic storage furniture. Requirements for safety, strength, durability and stability

BS EN 12520:2010 Furniture. Strength, durability and safety. Requirements for domestic seating

BS EN 15723:2010 Railway applications. Closing and locking devices for payload protecting devices against environmental influences. Requirements for durability, operation, indication, maintenance, recycling

DIN EN 15338 (2010-06) Hardware for furniture - Strength and durability of extension elements and their components (includes Amendment A1:2010)

**Key word search on 'corrosion' or 'corrosivity' or 'corrosive'; but not 'anodizing' or 'anodize(d)'**- 5 citations in all - no AS/NZS citations;

ISO 11130:2010 Corrosion of metals and alloys - Alternate immersion test in salt solution

ISO/FDIS 21457 Petroleum, petrochemical and natural gas industries - Materials selection and corrosion control for oil and gas production systems

ISO/FDIS 28706-5 Vitreous and porcelain enamels - Determination of resistance to chemical corrosion - Part 5: Determination of resistance to chemical corrosion in closed systems

10/30202646 DC BS ISO 29601. Paints and varnishes. Corrosion protection by protective paint systems. Test methods for the assessment of porosity in a dry film and expression of the results

10/30212959 DC BS A 400. Specification for corrosion resisting steel nuts, plain and slotted (unified hexagons and unified threads) for shear bolts for aircraft

**Key word search on 'paint' and or 'coating'; but not 'anodizing' or 'anodize(d)' or corrosion– 7 Publications found; none from AS/NZS;**

ISO/DIS 2431 Paints and varnishes - Determination of flow time by use of flow cups

BS EN ISO 1513:2010 Paints and varnishes. Examination and preparation of test samples

BS 3900-0:2010 Methods of test for paints. Index of test methods

ISO 21809-3:2008/DAMd 1 Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 3: Field joint coatings - Amendment 1

10/30230365 DC BS EN 50050-2. Electrostatic hand-held spraying equipment. Safety requirements. Part 2. Hand-held spraying equipment for ignitable coating powder

BS EN 1071-12:2010 Advanced technical ceramics. Methods of test for ceramic coatings. Reciprocating wear test

BS EN 1071-13:2010 Advanced technical ceramics. Methods of test for ceramic coatings. Determination of wear rate by the pin-on-disk method

**Key word search on 'galvanize' or 'galvanized' or galvanizing' –0 Standard Publications found**

**Key word search on 'cathode' or 'cathodic' - 0 corrosion related Standard Publications found;**

**Key word search on 'anode' or 'anodes' or 'anodic' – 0 Standard Publications found;**

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**Key word search on 'anodizing' or 'anodize(d)' –5 Standard Publications found relating to aluminium and its alloy anodizing; none from AS/NZS;**

ISO 2143:2010 Anodizing of aluminium and its alloys - Estimation of loss of absorptive power of anodic oxidation coatings after sealing - Dye-spot test with prior acid treatment

ISO 2931:2010 Anodizing of aluminium and its alloys - Assessment of quality of sealed anodic oxidation coatings by measurement of admittance

ISO 3210:2010 Anodizing of aluminium and its alloys - Assessment of quality of sealed anodic oxidation coatings by measurement of the loss of mass after immersion in phosphoric acid/chromic acid solution

ISO 6581:2010 Anodizing of aluminium and its alloys - Determination of the comparative fastness to ultraviolet light and heat of coloured anodic oxidation coatings

ISO 7599:2010 Anodizing of aluminium and its alloys - General specifications for anodic oxidation coatings on aluminium

**Key word search on 'corrosion' and 'concrete' or 'concrete' and 'coatings' - 0 Standard Publications found.**



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